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| Proposal #2001- <u>D-203</u> | (Office Use Only) |
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PSP Cover Sheet (Attach to the front of each proposal)

Proposal Title: Yolo Bypass Management Strategy, Phase II
 Applicant Name: Yolo Basin Foundation, on behalf of the Yolo Bypass Working Group
 Contact Name: Robin Kulakow, Executive Director
 Mailing Address: P.O. Box 943, Davis, CA 95617
 Telephone: 530/756-7248
 Fax: 530/757-4824
 Email: robin@yolobasin.org

Amount of funding requested: \$ 467,147

Some entities charge different costs dependent on the source of the funds. If it is different for state or federal funds list below.

State cost _____

Federal cost _____

Cost share partners?**Yes X No**

Identify partners and amount contributed by each _____

Include the Topic for which you are applying (check only one box).

- | | |
|--|--|
| <input type="checkbox"/> Natural Flow Regimes | <input type="checkbox"/> Beyond the Riparian Corridor |
| <input type="checkbox"/> Nonnative Invasive Species | <input type="checkbox"/> Local Watershed Stewardship |
| <input type="checkbox"/> Channel Dynamics/Sediment Transport | <input type="checkbox"/> Environmental Education |
| <input checked="" type="checkbox"/> Flood Management | <input type="checkbox"/> Special Status Species Surveys and Studies |
| <input type="checkbox"/> Shallow Water Tidal/Marsh Habitat | <input type="checkbox"/> Fishery Monitoring, Assessment and Research |
| <input type="checkbox"/> Contaminants | <input type="checkbox"/> Fish Screens |

What county or counties is the project located in? Yolo; Solano

What CALFED ecozone is the project located in? See attached list and indicate number. Be as specific as possible Zone 10: Yolo Basin

Indicate the type of applicant (check only one box):

- | | |
|--|--|
| <input type="checkbox"/> State agency | <input type="checkbox"/> Federal agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input checked="" type="checkbox"/> Non-profit |
| <input type="checkbox"/> Local government/district | <input type="checkbox"/> Tribes |
| <input type="checkbox"/> University | <input type="checkbox"/> Private party |
| <input type="checkbox"/> Other: _____ | |

Indicate the primary species which the proposal addresses (check all that apply):

- | | |
|--|--|
| <input type="checkbox"/> San Joaquin and East-side Delta tributaries fall-run chinook salmon | <input checked="" type="radio"/> Spring-run chinook salmon |
| <input checked="" type="radio"/> Winter-run chinook salmon | <input checked="" type="radio"/> Fall-run chinook salmon |
| <input checked="" type="radio"/> Late-fall run chinook salmon | <input type="checkbox"/> Longfin smelt |
| <input checked="" type="radio"/> Delta smelt | <input type="checkbox"/> Steelhead trout |
| <input checked="" type="radio"/> Splittail | <input type="checkbox"/> Striped bass |
| <input checked="" type="radio"/> Green sturgeon | <input type="checkbox"/> All chinook species |
| <input checked="" type="radio"/> White Sturgeon | <input type="checkbox"/> All anadromous salmonids |
| <input checked="" type="radio"/> Waterfowl and Shorebirds | <input type="checkbox"/> American shad |
| <input checked="" type="radio"/> Migratory birds | |
| <input checked="" type="radio"/> Other listed T/E species: _____ | |

Indicate the type of project (check only one box):

- | | |
|---|---|
| <input checked="" type="checkbox"/> Research/Monitoring | <input type="checkbox"/> Watershed Planning |
| <input type="checkbox"/> Pilot/Demo Project | <input type="checkbox"/> Education |
| <input type="checkbox"/> Full-scale Implementation | |

Is this a next-phase of an ongoing project? Yes X No

Have you received funding from CALFED before? Yes X No

If yes, list project name and CALFED number: Ecosystem Restoration Strategy for the Yolo Bypass/#98E -11

Have you received funding from CVPIA before? Yes No X

If yes, list CVPIA program providing funding, project title and CVPIA number (if applicable):

By signing below, the applicant declares the following:

- The truthfulness of all representations in their proposal;
- The individual signing the form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or organization); and
- The person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section 2.4) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

Robin Kulakow

Printed name of applicant

Robin J Kulakow

Signature of applicant

B. EXECUTIVE SUMMARY

Project Title: Yolo Bypass Management Strategy, Phase II

Amount Requested: \$467,147

Applicant Name(s): Yolo Basin Foundation

Primary Contact: Robin Kulakow, Executive Director, Yolo Basin Foundation, P.O. Box 943, Davis, CA 95617, Telephone: 530/756-7248, Fax: 530/757-4824, E-mail: robin@yolobasin.org

Participants and Collaborators: Yolo Basin Foundation (YBF), Yolo Bypass Working Group (Working Group), Jones & Stokes

Program Summary: The Working Group is proposing to conduct Phase II of the current Yolo Bypass Management Strategy (Management Strategy) project, funded through a CALFED grant from the 1998 funding package. Contract management support would be provided by the Foundation. The project is proposed under the "Flood Management/Bypasses as an Ecosystem Tool" topic area. The Working Group is a locally driven stewardship and stakeholder group of private landowners and water users in the Yolo Bypass (Bypass) and representatives of other relevant agencies associated with the functions of the Bypass. The group was created with the management and organization assistance of the Foundation through the Management Strategy project.

The project area is located in Yolo and Solano Counties on the west side of the lower Sacramento River in CALFED's ERPP ecozone 10 (Yolo Basin). The objective of the project is to continue the technical research, planning, and stakeholder development efforts begun under the current Management Strategy project to ensure existence of the necessary data, assurances, and support for implementation of potential habitat enhancement projects in the Bypass. The viability of future ecological enhancement in the Bypass is dependent on landowner and flood management agency willingness and participation. Additionally, there are uncertainties about the baseline ecological condition in the Bypass. This project would involve establishing such a baseline; continuing the Working Group public outreach process; conducting analyses of: the costs and benefits associated with potential ecological enhancements; compensation for land-use changes; hydrologic and hydraulic impacts, and mitigation; and developing a Memorandum of Understanding (MOU) addressing the assurances required by landowners and all other affected parties. Unless these tasks are completed, the viability and feasibility of additional ecological enhancements in the Bypass remain uncertain.

The proposal includes seven hypotheses; the overall hypothesis is that private landowners can maintain their livelihoods and lifestyles while participating in ecological enhancement activities on their lands. The proposed project is a good-faith effort to ensure that the CALFED ERPP goals can be achieved in partnership with, rather than at the expense of, economic viability of Bypass landowners. The proposed project is intended to increase the likelihood of meeting CALFED's ERPP goals of achieving recovery of at-risk native species dependent on the San Francisco Bay and Sacramento-San Joaquin Rivers Delta (Bay-Delta) and the Bypass; rehabilitating the natural processes in the Bay-Delta system to support natural aquatic and associated terrestrial biotic communities; maintaining and enhancing populations of selected species for sustainable commercial and recreational harvest; and protecting and restoring functional habitat types for public values such as recreation, scientific research, and aesthetics.

C. PROJECT DESCRIPTION

The Working Group, with contract management support provided by the Yolo Basin Foundation (Foundation), proposes the following project entitled "Yolo Bypass Management Strategy, Phase II." This proposal is made under the "Flood Management/Bypasses as an Ecosystem Tool" topic area. The Foundation will be the responsible contracting party and fiscal manager for the project. The Working Group is a locally driven stewardship and stakeholder group of private landowners and water users in the Bypass and representatives of relevant agencies associated with the Bypass. The group was created with management and organization assistance from the Foundation through the ongoing Management Strategy project funded by a 1998 CALFED grant (Appendix A and Figure 1). The Working Group is not incorporated and therefore defers all fiscal management of the proposed project to the Foundation.

Background: As part of CALFED, an ERPP was developed that outlines proposed goals, objectives, and restoration actions for the San Francisco Bay and the Bay-Delta. The Yolo Basin is identified in the ERPP as an Ecological Management Zone. Pages 334 through 352 of Volume II of the ERPP present a fairly comprehensive vision for the Yolo Basin, including discussion of ecological improvement goals and stressors focusing on specific ecological processes and habitats and stressors related to agricultural water use, gravel mining, water-borne contaminants, and invasive non-native species.

1. Statement of the Problem

a. Problem

The ERPP discussion of the Yolo Basin does not address potential impacts to flood conveyance, land use, and water use that could be posed by ecological enhancements in the Bypass. It also does not discuss the economic impacts of such land-use changes to existing agricultural and duck club properties. **Almost all of the lands within the Bypass are privately owned and are in agricultural production or managed wetland hunting clubs. Furthermore, all privately owned lands within the Yolo Bypass are under flowage easements managed by the State of California Reclamation Board for the purpose of ensuring the adequate and unencumbered flow of floodwaters through the lower Sacramento River Valley to the Bay-Delta. Lastly, the Bypass is considered by both the State Reclamation Board and the U.S. Army Corps of Engineers (Corps) to be at flood management design capacity based on measured flows and stage levels during the 1986 flood event.**

The goal of current 1998 CALFED project is for the Working Group to develop a locally driven, long-term management strategy for the **Bypass** (Figure 1). The final product of the project will be a document titled the Yolo Bypass Management Strategy (Figure 2). This document will be completed in Summer of 2000 and will outline preliminary measures to:

- maintain current flood conveyance capacity;
- maintain current agricultural operations, managed duck clubs, and other land uses;
- preserve and enhance existing habitat values;
- assist farmers with implementing economically feasible, "wildlife friendly" agricultural practices;
- improve fish passage, and spawning and rearing habitats; and
- improve shorebird, waterfowl, and upland habitats.

The Working Group has been meeting monthly since November 1999 with increasing numbers of landowners and other stakeholders attending each meeting. The meetings have been highly successful in organizing all interested parties into a cohesive group that is openly discussing land use, flood management, resource policy, economics, and ecological issues.

Key concerns raised regarding ecological enhancement land-use changes have included the effects of such changes on avian game species populations and hunting yields and the associated economic impacts on

Figure 1

Management Strategy for the Yolo Bypass Information Sheet

Study Introduction and Purpose

The Yolo Basin Foundation (Foundation) has received a CALFED Bay-Delta Program (CALFED) grant to develop a long-term strategy for managing fish and wildlife habitat while maintaining agricultural economic viability and flood control in the Yolo Bypass (Bypass). The grant will fund a year long process that will bring the landowners, agencies, and other stakeholders in the Bypass together to develop mutually beneficial strategies. The project will produce a report documenting the proposed Management Strategy (Strategy), as well as other documents focusing on consensus-based management scenarios for habitat, agriculture, flood control, and recreational activities consistent with agricultural, flood control, and recreational uses.

The Bypass has great potential for providing wildlife habitat while continuing agricultural land use. The adverse effects of recent floods on farm economics make this an opportune time to examine the management of the Bypass as a whole. Proposed changes to the Sacramento River Flood Control Project also make a case for initiating stakeholder discussions and developing a locally based vision for the Bypass. The Foundation believes that local stakeholders should have direct input in creating a vision for the Bypass that protects their interests while also helping to guide projects proposed by others.

The primary goal of the project is to foster stakeholder stewardship of the Bypass in order to encourage practices that protect and enhance fish and wildlife habitat while respecting and maintaining economic viability of agriculture and other uses. The Foundation is committed to maintaining landowners' flexibility and ability to farm economically. Strategic solutions will only be recommended for lands of willing participants.

Key Characteristics of the Strategy:

- The process for developing the Strategy will be driven by directly affected stakeholders.
- The process will include input from other interested local and agency stakeholders.
- The Strategy will focus on voluntary measures involving willing landowners and other stakeholders.
- The Strategy will recommend, but will not implement, an array of management scenarios.

Key Objectives of the Strategy:

- Maintain current flood conveyance capacity.
- Maintain current agricultural and other land uses.
- Preserve existing habitat values.

- Assist farmers with implementing economically feasible and "wildlife friendly" agricultural practices.
- Improve fish passage, spawning, and rearing habitat.
- Improve shorebird and waterfowl habitat.

Potential Components of the Strategy:

- Modifying flood control structures for operational flexibility and improved fish passage.
- Improving connectivity of existing habitat.
- Proposing an array of projects for improving wetland and riparian habitats that provide the greatest habitat benefit without jeopardizing flood conveyance capacity.
- Recommending easements and fee title acquisitions for habitat improvement while maintaining agriculture land uses.

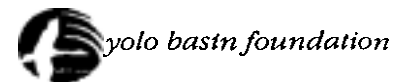


Figure 1 continued

Study Area

The Yolo Bypass is a leveed 59,000-acre floodplain in Yolo and Solano Counties. As part of the Sacramento River Flood Control Project, it carries floodwaters from the Sacramento, Feather, and American Rivers and their tributaries into the Sacramento-San Joaquin River Delta. It provides flood protection to the Cities of Sacramento, West Sacramento, Davis, and Woodland; agricultural land for a variety of farming uses; and riparian and wetland habitats. In years when it *floods*, the Bypass is a migration route and a spawning and rearing area for many sensitive Bay-Delta fish species. It also provides habitat for shorebird, waterfowl, and terrestrial species. Large areas within the Yolo Bypass are currently managed for wildlife habitat, including the Vic Fazio Yolo Wildlife Area, Conaway Ranch, and the duck clubs in the south Bypass.

Yolo Basin Foundation

The Foundation is the nonprofit organization that initiated and coordinated the effort to create the Vic Fazio Yolo Wildlife Area beginning in 1990. It is interested in finding balanced solutions for expanding habitat opportunities while maintaining a viable agricultural economy and floodwater conveyance system in the Bypass. The Foundation's Executive Director, Robin Kulakow, is project manager for the Management Strategy. Jones & Stokes Associates is under contract with the Foundation to provide technical and strategic expertise.

Stakeholders

Stakeholders in this project include landowners, farmers, duck club owners, and residents; state, federal, and local agencies; local elected officials; and local watershed and other nonprofit groups.

Contact Information

If you wish to comment on, or participate in, this project, please contact Robin Kulakow, Yolo Basin Foundation, 530/756-7248.

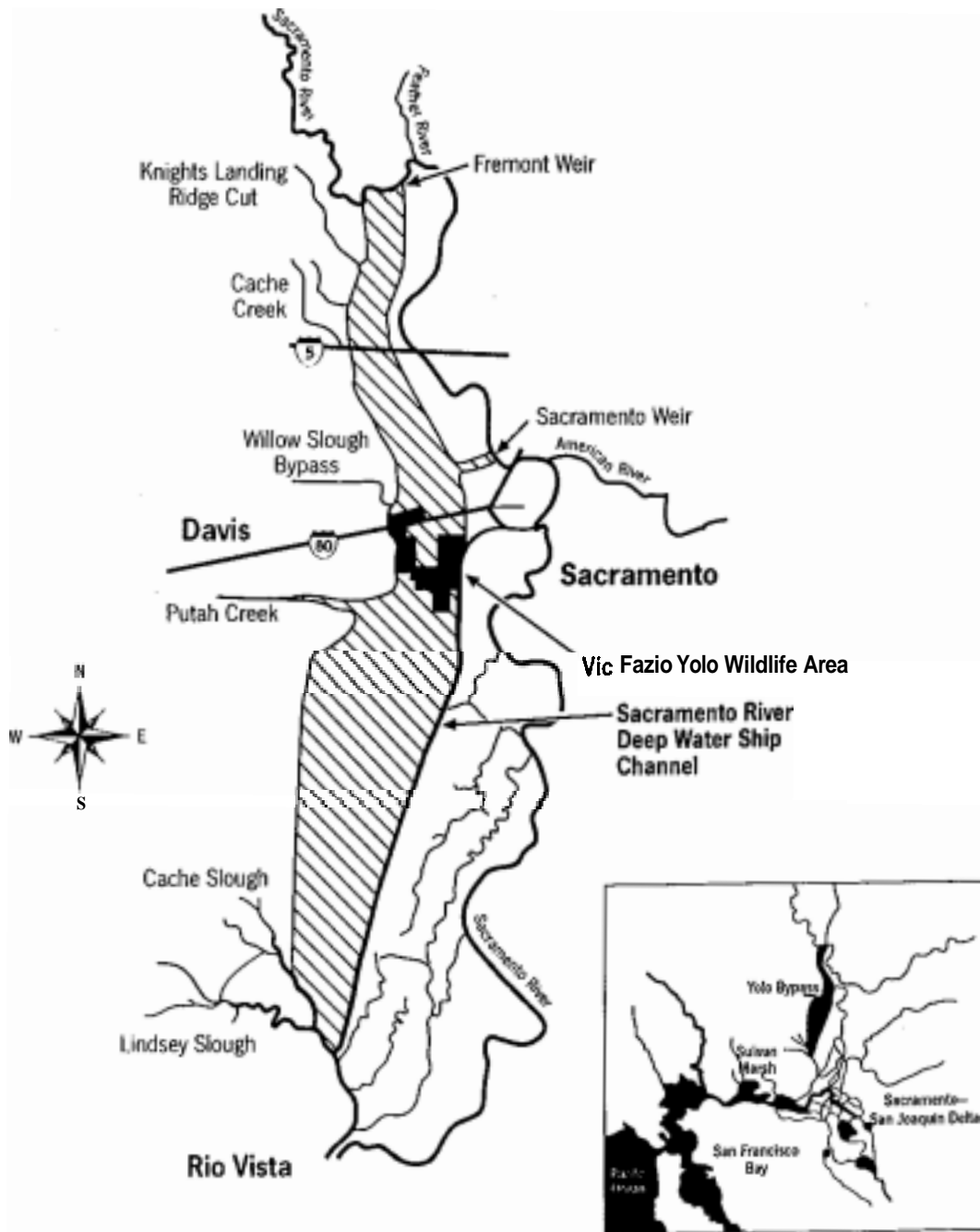


FIGURE 2

Yolo Bypass Management Strategy Draft Document Outline May 15,2000

I Introduction

- A. Location of Project
- B. Project Purpose
- C. Project Process
 - 1. Stakeholder Involvement
 - 2. Working Group
 - 3. CALFED
- D. Future of Project
- E. Related Past and Ongoing Studies/Projects
 - 1. Central Valley Habitat Joint Venture Suitability Analysis
 - 2. North Delta National Wildlife Refuge
 - 3. DWR–Fish Population Studies
 - 4. Central Valley Habitat Joint Venture Hydrologic Analysis for the Vic Fazio Yolo Wildlife Area
 - 5. Corps Comprehensive Study
- F. Public Agency/Institutional Interests

II Existing Land Use Conditions in Bypass

- A. Economics/Land Use
 - 1. Agriculture
 - 2. Duck Clubs
 - 3. Existing Easements
 - a. Flowage Easements
 - b. Conservation Easements
 - 4. Public Ownership
 - 5. Other
- B. Flood Conveyance

FIGURE 2 - continued

C. Physical Processes

1. Groundwater
2. Hydrology
3. Soils

D. Water Use

1. Surface
2. Groundwater
3. Timing

E. Habitat

1. Dry (non-flood) Conditions
 - a. Agricultural Land
 - b. Duck Clubs
 - c. Irrigation Ditches
 - d. Tule Canal/Toe Drain
 - e. Sloughs
 - f. Poned Areas
 - g. Established Habitat Areas
2. Flooded Conditions
 - a. Fish Habitat
 - b. Shorebird Habitat
 - c.. Other

3. Conclusions–Status/Quality/Benefits of Existing Habitat

III Assurances Required by Stakeholders for Habitat Enhancement Activities

A. Maintenance of Economic Viability

1. Timing, Frequency **and** Duration of Flooding
2. Duck Club/Sanctuary Issue

B. Protection **of** Lifestyle

C. Fair Compensation

D. Safe Harbor

E. Memorandum of Understanding/Acknowledgment of Working Group as Advisory Entity

IV Opportunities for Potential Habitat Expansion in Bypass

A. Likely Target Species

B. Potential Alternatives

1. Habitat-Friendly Farming
2. Triple Cropping (fall flooding for shorebirds, winter flooding for fish, and spring-summer agricultural crops)
3. Expansion of Habitat Along Drainage Ditches/Sloughs
4. Expansion of Habitat Along Tule CanaVToe Drain
5. Creation of Additional Poned Areas

C. Conclusions

1. Primary Likely Benefits
2. Compatibility with Current Land Uses

V Limits to/Restrictions on Habitat Creation and Possible Mitigating Actions

A. Flood Conveyance Requirements

1. Reclamation Board's Position
2. Potential Solutions

B. Economic Viability

1. Effects of Flooding (timing, frequency, duration) on Agricultural Viability
2. Crop Types
3. Duck Club/Sanctuary Issue

VI Additional Studies Required to Select, Design, and Implement Potential Projects

A. Hydraulics & Hydrology Modeling

1. Effects of Habitat Creation on Flood Conveyance, Frequency, and Duration
2. Effects of Proposed Projects on Neighboring Lands

B. Economic Analysis of Fair Compensation

C. Effectiveness of Habitat Creation—Monitoring of Installed Projects

VII Monitoring of Future Habitat Creation Projects

A. Methods of Monitoring and Reporting

VIII Conclusions

- A. *Summary* of Requirements to Keep Stakeholder Support
- B. *Summary* of Potential Overall Habitat and Land Use Benefits of Potential Projects
- C. Future of the Project
 - 1. Role of Working Group
 - 2. CALFED Proposal for Fiscal Year 2001

Appendices

- 1. Working Group Members
- 2. Additional Stakeholders
- 3. Existing Easement/Compensation Programs
- 4. Habitat-Friendly Farming References
- 5. Species Lists
- 6. North Delta National Wildlife Refuge--Current Status Report
- 7. Bibliography of Related Studies

duck clubs; reduced crop yields from flood damages, increased pests and diseases, and shortened growing seasons; increased costs of flood-control infrastructure; increased operations and maintenance costs to remediate the effects of flooding; reduced farmable acreage; and possible restrictions on current operations as a result of the potential introduction of special-status species on or near agricultural or duck club properties.

The landowners have expressed a general willingness to discuss ecological enhancement activities and land-use changes in the Bypass provided that certain factors are comprehensively addressed. These factors include:

- fair market compensation to private landowners for land-use changes;
- analysis of and mitigation for hydrologic and hydraulic impacts of land-use changes; and
- acknowledgment, in the form of an MOU signed by all affected parties within the Bypass and all organizations having a vested interest in the Bypass of the Working Group as the primary organization that should provide advice on future land use in the Bypass. In particular, the MOU should address "safe harbor" issues so that special-status species can be protected but landowners may maintain their economically important operations.

b. Conceptual Model

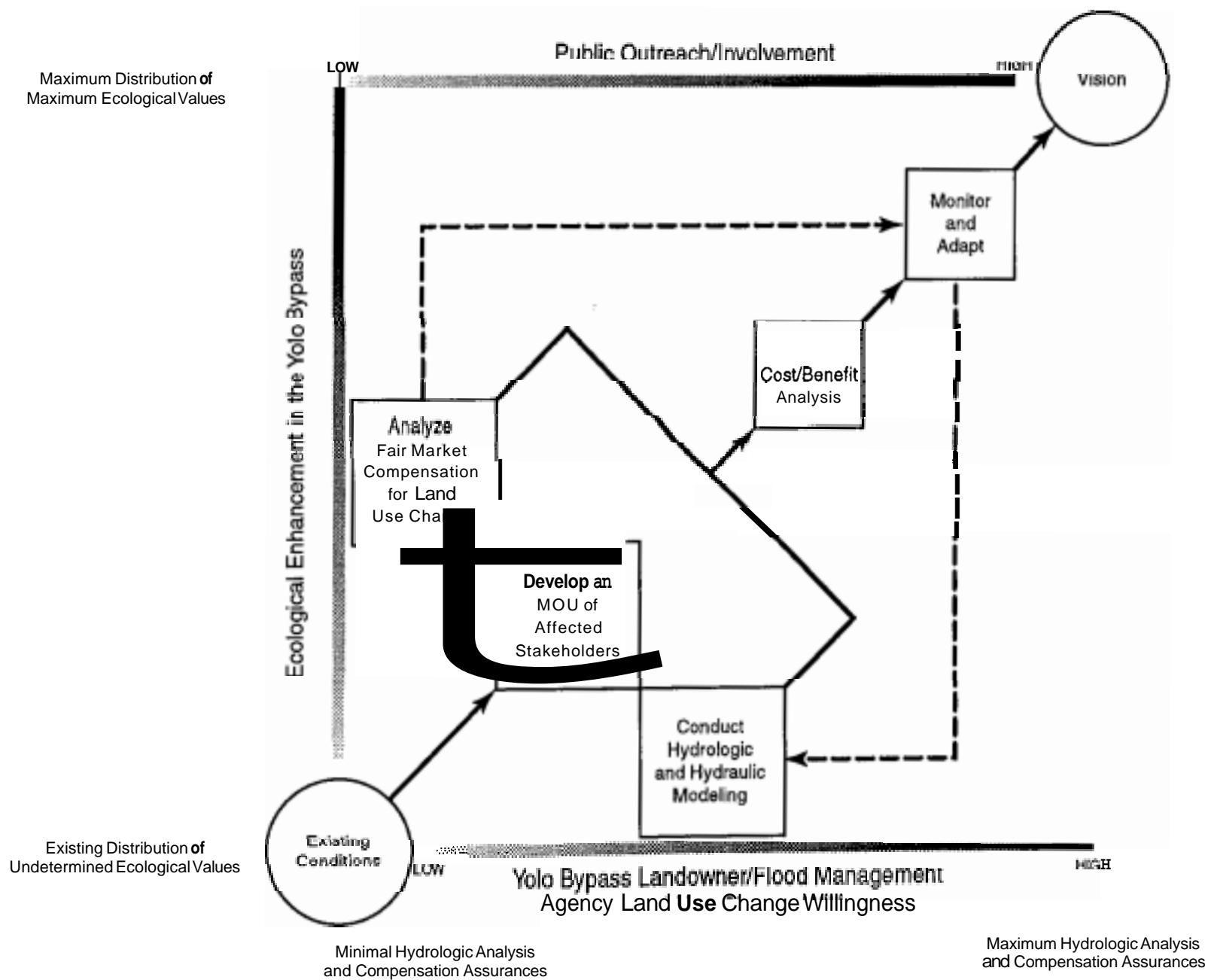
The viability of future ecological enhancement projects in the Bypass is dependent on landowner and flood management agency willingness and participation. Without such support, the likelihood of success of such projects is limited. While anecdotal and scientific data that provide a strong basis of the ecological importance of the Bypass exist, no qualitative or quantitative analyses have been conducted in the Bypass (or any other State Flood Control Project bypass) to better understand the costs and benefits associated with potential ecological enhancements, land compensation, hydrologic and hydraulic impacts and mitigation, and continued relevant governmental/private landowner communication. Additionally, an analysis of existing habitat in the Bypass to ascribe it a baseline value has not been done. Without such an analysis, it remains uncertain if proposed ecological enhancements in the Bypass are viable or feasible (Figure 3).

c. Hypotheses Being Tested

The objective of the proposed project is to address the aforementioned landowner concerns to accommodate future ecological enhancements while protecting landowner interests. The tasks presented in this proposal are considered a continuation of the important work and dialogue initiated by the Working Group. The tasks will focus on conducting highly refined applied science to analyze specific technical, economic, and policy factors associated with proposed ecological enhancements in the Bypass and on the cumulative analysis of these factors in the context of costs and benefits. The project will also include a postproject monitoring effort to determine its success and the appropriateness of applying similar projects in similar flood bypass areas. Specifically, the project will focus on the following hypotheses:

- The level of compensation that farmers and duck club managers are willing to accept in exchange for their participation in ecological enhancement programs differs based on several variables. The Working Group believes that win-win situations for ecological enhancement on agricultural lands can occur where agricultural profitability is currently low because of flood hazards or low cropland suitability; the landowner has chosen to make a land-use and/or lifestyle change; and/or potential ecological productivity is high and financial compensation for such productive lands nears, meets, or exceeds existing economic returns.

Similarly, the Working Group believes that win-win situations for additional ecological enhancement on duck club properties are likely to occur where water delivery and quality are not compromised and compensation for additional land-use changes are commensurate with any



Yolo Bypass Management Strategy, Phase II

Figure 3
Conceptual Model

additional operations and maintenance costs associated with such changes. Furthermore, such mutually beneficial situations must be compatible with the numerous state and federal agency easements presently held on the majority of Bypass duck clubs that require specific land and water management practices to support resident waterfowl and other species.

- Providing information on the typical financial consequences of shallow water flooding and other ecological enhancement activities will increase landowners' willingness to participate in ecological enhancement programs.
- Providing information on the typical benefits and costs associated with implementing ecological enhancements in the Bypass will help restoration program managers identify properties that would be economically feasible to include in enhancement programs and would allow further public education and dialogue regarding these sensitive land-use modifications.
- Site-sensitive hydrologic and hydraulic modeling that is additive to existing and ongoing macro-level modeling efforts by the Corps needs to be developed to assess hypothetical site-specific habitat scenarios throughout the Bypass. Such an effort would define the potential micro-level effects of ecological enhancement activities on adjacent landowners and would also be necessary to assess potential effects of such activities on the overall flood conveyance capacity of the Bypass.
- **An MOU** between landowners, resource agencies, and other parties with an interest in the Bypass is critical to the overall CALFED goal of ecological enhancement in the Bypass. The emphasis of the MOU should be to link the dialogue developed through the current Management Strategy project to actual implementation of projects that enhance ecological values and protect the economic viability and lifestyles associated with existing land uses.
- Identification and assessment of the relative costs and benefits of potential ecological enhancements in the Bypass will expand the body of knowledge needed for implementation of such projects in this location and, potentially, other flood bypasses. Such analysis will require determination of baseline conditions and the value of these conditions.
- A post-project monitoring effort that focuses on general stewardship processes and, in particular, on critical decision-making nodes during such a process, is necessary to determine the value and applicability of this type of locally based planning process. This is important not only in the Bypass, but for other bypass areas and the larger CALFED study area. This monitoring effort is integral to CALFED's adaptive management principles.

The technical basis for these hypotheses comes from 8 months of work by the Working Group and a significant library of reference materials (Appendix B).

2. Proposed Scope of Work

a. Project Location

The Bypass is located in Yolo and Solano Counties on the west side of the lower Sacramento River (Figures 4a and 4b), in CALFED's ERPP ecozone 10 (Yolo Basin). The site is entirely within the boundaries of the Sacramento River Flood Control Project. The center point of the project area is 621600,4267200, coordinate system, UTM Zone 10, datum NAD 27.

b. Project Approach

As previously stated, there are seven key hypotheses that, if tested, will expand the body of knowledge necessary to support the successful implementation of ecological enhancement projects and the maintenance of private landowners' economic viability in the Bypass. These hypotheses are addressed below as specific tasks that would be performed under the proposed project. The Working Group and the

FIGURE 4a: Project Location Map

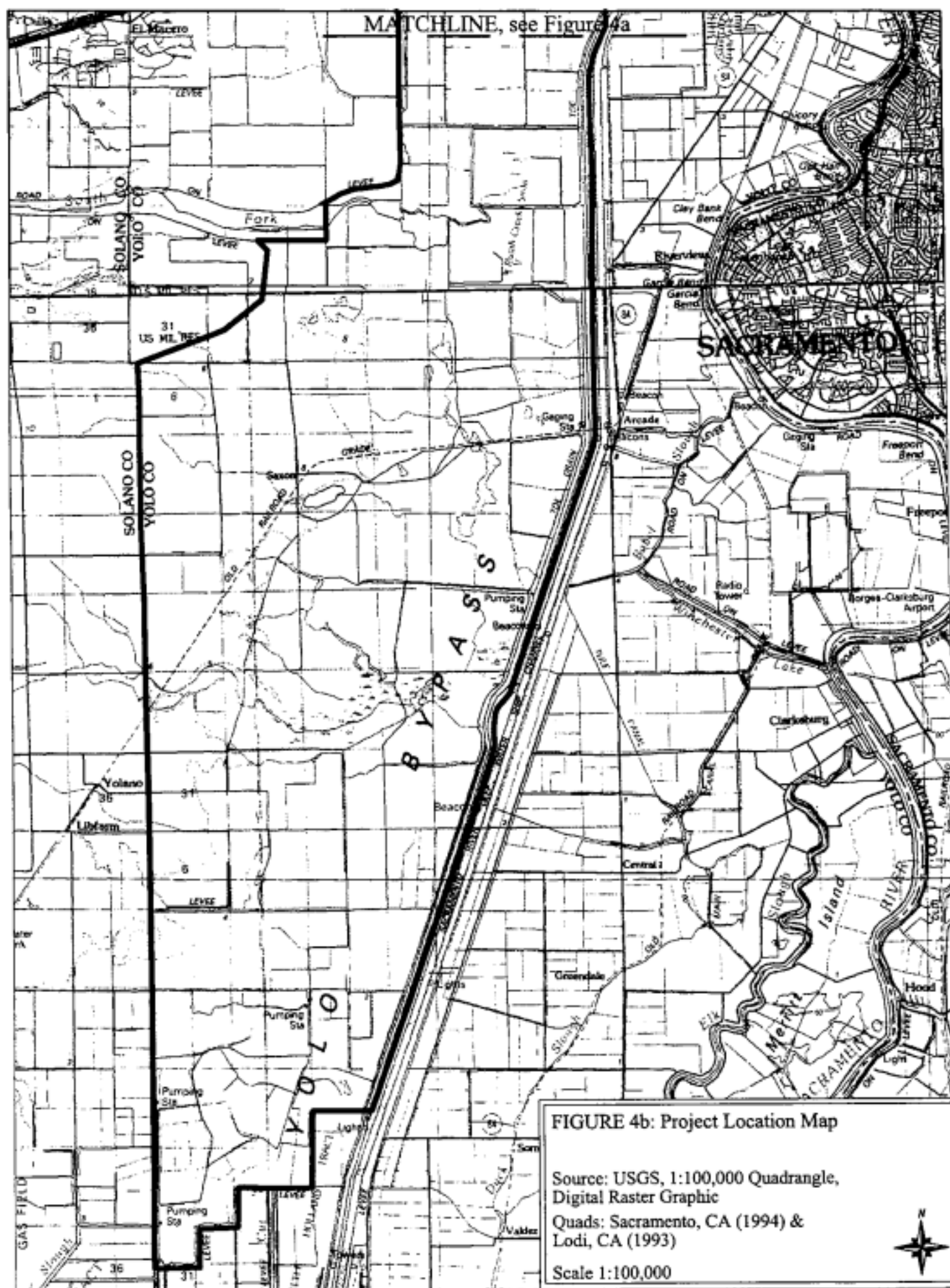
Source: USGS, 1:100,000 Quadrangle,
Digital Raster Graphic

Quads: Sacramento, CA (1994) &
Lodi, CA (1993)

Scale 1:100,000



MATCHLINE, see Figure 4b



Foundation propose that Jones & Stokes continue as the technical and facilitation subconsultant for this phase of the project. Figure 5 shows a proposed timeline for the project.

As stated in the Conceptual Model, the proposed tasks are all integral to gaining landowner and flood management agency support and potential participation in possible future habitat enhancement activities in the Bypass. Therefore, all of the proposed tasks are inseparable. The project could be funded incrementally to the extent that the project schedule is not altered significantly. Payments could be made following completion of milestones or based on periods of performance as long as neither the Foundation nor its subconsultant is expected to work significantly in arrears.

Task 1. Continue Bypass Working Group Meetings. For the following tasks to be effective, the open communication that has been successfully fostered between members of the Working Group, agency representatives, and technical experts needs to continue. Working Group meetings are organized by the Foundation with support from meeting facilitators, and include presentations by technical specialists from the private and public sectors. This task would include:

- organization and facilitation of Working Group and subcommittee meetings;
- development, distribution, and revision of meeting minutes; and
- coordination of guest speakers, meeting topics, and meeting agendas.

Expected **Products/Outcomes:** Meeting minutes, agendas, and technical memoranda.

Start Date: March 2001. Completion Date: May 2002. Budget: \$115,142.

Task 2. Fair Market Compensation for Ecological Enhancement Land-use Changes. A technical team including a farm appraiser, an agricultural economist, a waterfowl habitat management specialist, a restoration ecologist, and a hydrologist will assist the Working Group in identifying the changes in land use that could result from proposed ecological enhancement activities in the **Bypass**. This will include analyses of numerous habitat suitability distribution scenarios. The analyses will also identify the effects such changes would likely have on agricultural operating costs, cropping patterns, crop yields, crop revenues, water use, and profitability; and on waterfowl populations, hunting yields, water and habitat management, existing conservation easements, and water quality and disease management on duck clubs. The objective of this analysis is to provide information to farmers and duck club managers in the Bypass to help them evaluate the financial consequences of their participation in ecological enhancement programs and the reasonableness of monetary compensation for participating in such activities, which could include:

- creating seasonal shallow-water habitat for native fishes,
- enhancing and creating habitat corridors associated with water conveyance facilities,
- creating riparian habitat in areas not critical to conveyance of flood flows, and
- implementing other habitat-friendly farming practices.

This task would involve:

- interviewing real estate appraisal specialists working on federal, state, private, and non-governmental organization habitat restoration programs to assess the range of compensation levels that have historically been accepted for participation;
- interviewing farmers, reclamation and irrigation district managers, and duck club managers in the Bypass and at other Central Valley restoration sites to identify management responses they are likely to make to specified changes in flooding and vegetative cover (in other words, including adjustments Bypass land managers have already made in response to recent increases in flooding duration and frequency);
- analyzing the likely effects of existing flowage easements on compensation levels;

Figure 5
Yolo Bypass Management Strategy
Phase II
Proposed Project Timeline

- Task 1.** Continue Yolo Bypass Working Group Meetings.
- Task 2.** Fair Market Value Compensation for Habitat-Based Land-Use Changes.
- Task 3.** Hydrology and Hydraulics Sensitivity Analysis.
- Task 4.** Memorandum of Understanding (MOU).
- Task 5.** Benefit and Cost Analysis of Ecological Restoration Opportunities.
- Task 6.** Post Project Monitoring.
- Task 7.** Project Management.

| | February 2001 | March 2001 | April 2001 | May 2001 | June 2001 | July 2001 | August 2001 | September 2001 | October 2001 | November 2001 | December 2001 | January 2002 | February 2002 | March 2002 | April 2002 | May 2002 |
|---------------|---------------|------------|------------|----------|-----------|-----------|-------------|----------------|--------------|---------------|---------------|--------------|---------------|------------|------------|----------|
| Task 1 | | | | | | | | | | | | | | | | |
| Task 2 | | | | | | | | | | | | | | | | |
| Task 3 | | | | | | | | | | | | | | | | |
| Task 4 | | | | | | | | | | | | | | | | |
| Task 5 | | | | | | | | | | | | | | | | |
| Task 6 | | | | | | | | | | | | | | | | |
| Task 7 | | | | | | | | | | | | | | | | |

Milestone Notes:

- a. Complete fair market value compensation technical report.
- b. Conduct preliminary negotiation on findings.
- c. Finalize mutually accepted fair market value compensation levels.
- d. Complete hydrology/hydraulics technical report.
- e. Complete MOU.
- f. Complete benefit-cost analysis.
- g. Complete post project monitoring technical report.

- identifying the key variables (for example, farm size/duck club size, elevation, soils, levee protection, drainage improvements, and location) that affect agricultural and managed habitat costs associated with land-use changes; and
- estimating a reasonable range of compensation levels for specified changes in flooding or implementing specified ecological enhancement activities.

Expected Products/Outcomes: A technical report summarizing a reasonable range of compensation levels for various levels of participation in restoration programs.

Start Date: March 2001. **Completion Date:** April 2001. **Budget:** \$95,474.

Task 3. Hydrology and Hydraulics Modeling. A hydrology and hydraulics modeling analysis will be conducted to evaluate the effects of potential land-use changes on flood conveyance capacity and localized flood frequency and duration. A technical team including a hydrologist, a hydrologic modeler, a fluvial geomorphologist, and agency specialists (likely from the Corps, the State Reclamation Board, and the Department of Water Resources (DWR) Floodplain Management Division) will oversee model development.

Our hypothesis is that a one-dimensional flow model (HEC-RAS or UNET) calibrated to match the results of previous two-dimensional models (MA-2 modeling by the Corps) will be a versatile and less expensive analysis tool capable of simulating a full range of flows (for example, 500 cfs to 500,000 cfs) and management measures with sufficient accuracy to meet the information needs of flood management agencies.

Model development will include the following steps:

- meet with DWR, the Corps, and the State Reclamation Board to obtain concurrence on the modeling approach;
- develop a hydraulics model that simulates the effects of potential ecological enhancement projects on:
 - localized planned inundation to create floodplain habitat,
 - flood risk and irrigation operations on neighboring parcels, and
 - flood stages along the Bypass during major floods;
- meet with DWR and the State Reclamation Board to present modeling results and seek approval of the model as a basis for decisions regarding proposed projects in the Bypass;
- survey bathymetry and roughness conditions along the Tule Canal/Toe Drain to obtain data needed for accurate simulation of flows in the Tule Canal/Toe Drain;
- simulate the effects of potential ecological enhancement projects on lands of willing participants and neighboring landowners, including:
 - identify relatively low areas along the floodplain adjacent to the Tule Canal/Toe Drain that would be suited for controlled inundation,
 - simulate the inundated areas that would result from excavation and/or weirs that would be included in proposed projects, and
 - simulate the effects of selected project locations and designs on flood stages along the Bypass and possibly also simulating potential mitigation measures.

Expected **Products/Outcomes**:

- technical memoranda will document analysis methodology approved by **DWR**, DFG, National Marine Fisheries Service, and the State Reclamation Board for the simulation of potential vegetation and terrain modifications;
- survey methods and data, and model design, input, and calibration; and
- the simulated effects of proposed projects on flood stages and the effectiveness of potential mitigation measures.

Start Date: March 2001. Completion Date: July 2001. Budget: \$86,598.

Task 4. Memorandum of Understanding. The Management Strategy report will discuss potential ecological enhancement activities that the Working Group is willing to consider. The report will outline assurances required by landowners for them to agree to such activities.

Under this task, an MOU would be developed between the Working Group and the relevant local, state, and federal entities. The MOU would be a critical step towards implementing ecological enhancement projects and would:

- formally establish the Working Group as the public review and advisory body for any public actions proposed for the Bypass, and
- further define and formalize the assurances outlined in the Management Strategy report and establish the Working Group as a key body overseeing implementation of the Management Strategy.

Key components of the MOU could include protection of private property rights, agreement on "safe harbor" assurances with regard to special status species, maintenance of flood conveyance capacity, and protection of existing economic viability.

This task would include the following steps:

- conduct Working Group and subcommittee meetings to identify appropriate MOU signatories and develop initial draft language for the MOU,
- organize meetings between all signatories to further refine the MOU and address concerns,
- develop a draft MOU for submittal to all signatories for review,
- conduct Working Group meetings to finalize the MOU, and
- develop the final MOU for submittal to all signatories for signing.

Expected Products/Outcomes: An MOU between the Working Group and the relevant local, state, and federal entities.

Start Date: March 2001. Completion Date: December 2001. Budget: \$27,104.

Task 5. Benefit and Cost Analysis of Ecological Enhancement Opportunities. Information developed through Tasks 2, 3, and 4 will be interpreted to identify and estimate the major economic benefits and costs associated with additional ecological enhancement in the Bypass. Types of potential benefits to be addressed could include, but are not limited to:

- the ecological benefits of expanded riparian, wetland, and upland habitats including increased viability of populations of special-status species;
- increased abundance of commercially and recreationally important fish species;
- increased opportunities for recreational wildlife viewing;

- reduced flood damages associated with conversion of flood-prone farmland;
- increased early-season irrigation of farm lands associated with shallow-water native fish habitat projects, in dry years;
- weed and pest management through early-season irrigation;
- local and regional groundwater recharge effects;
- decreased labor costs associated with agricultural and duck club water supply and delivery;
- improved water management and conservation; and
- increased migrant and resident populations of waterfowl and other recreationally and economically important avian game species.

Types of potential costs to be addressed could include, but are not limited to:

- reduced crop yields from flood damages, increased losses to pests and diseases, and a shortened growing season;
- reduced opportunities to grow high-value crops resulting from prolonged periods of excessive soil moisture;
- increased costs of flood-control infrastructure and increased operations and maintenance costs to remediate the effects of flooding;
- potential impacts to areas upstream of the Bypass (for example, Yuba and Sutter Counties) due to loss of flood conveyance capacity;
- reduced farmable acreage associated with conversion of farmland to habitat;
- reduced groundwater recharge from a reduction of rice production;
- effects on the local economy of losses of jobs and reduced purchases of agricultural equipment and materials if the quantity of land in agricultural production is reduced;
- decreased hunting yields of waterfowl and upland avian game species resulting from increased acreage of adjacent non-hunted "sanctuary" habitats; and
- increased disruption of farming operations and hunting opportunities resulting from increased public use and vehicular access in the Bypass.

Some market data is available to assess some of the costs and benefits listed above. However, no data currently exist regarding the ecological and recreational benefits of ecological enhancement and the costs of such enhancements to duck-club hunting operations. Indirect valuation methods will be used to assess these nonmarket values. For example, the applied economics literature will be reviewed to identify economic evaluations of similar enhancement programs to identify the key characteristics that determine their benefits and identify the range of values that has been attributed to similar programs in past studies. This effort could include an analysis of the effectiveness of existing conservation easement programs. The benefit-cost assessment will identify the key land characteristics that determine economic suitability for ecological enhancement.

Expected Products/Outcomes: A technical report summarizing the range of costs and benefits associated with implementing additional ecological enhancement on farmlands and duck clubs in the Bypass.

Start Date: August 2001. Completion Date: January 2002. Budget: \$92,449.

Task 6. Post-Project Monitoring. The current Management Strategy project and its proposed second phase are innovative processes intended to achieve many of CALFED's goals. **An** understanding of the effectiveness of these processes, and of how to improve upon them, will be essential for more widespread development and implementation of projects that meet CALFED's goals for flood bypasses in the Central Valley. To gain this critical perspective, this phase of the project will conclude with an evaluation of the process to date, including:

- an evaluation of the effectiveness of the process in analyzing costs versus benefits of potential habitat enhancement activities and land-use changes;
- an assessment of the effectiveness of the process in establishing fair market compensation formulas for land-use changes on private land intended to benefit habitat;
- an evaluation of the Working Group process as a model for public participation in habitat enhancement projects involving private lands; and
- an analysis of how critical decision-making occurred, whether such decision-making resulted in equitable and mutually beneficial solutions, and how this could be improved.

This task would include the following steps:

- conduct Working Group meetings and subcommittee meetings to discuss the effectiveness of the project process and to make recommendations for improving similar ~~future~~ projects;
- meet with regulatory and funding agencies to discuss the effectiveness and usefulness of the project process and recommendations for improving similar future projects;
- develop a draft post-project monitoring document;
- submit the post-project monitoring document for review by the Working Group and relevant local, state, and federal regulatory and funding agencies; and
- develop a final post-project monitoring document.

Expected Products/Outcomes: Post-project monitoring document discussing the effectiveness of the project process and recommending guidelines and improvements for similar future projects.

Start Date: March 2002. **Completion Date:** May 2002. **Budget:** \$27,713.

Task 7. Project Management. The Foundation, on behalf of the Working Group, will provide project management support for this project. These efforts will include:

- oversight of the subconsultant and associated billings;
- coordination with appropriate funding agencies and CALFED ERPP staff;
- project presentations at annual CALFED review meetings;
- preparation of quarterly financial and project progress reports for submittal to CALFED;
- oversight of project progress, schedules, and budget; and
- preparation of a final project report for submittal to CALFED.

Start Date: February 2001. **Completion Date:** May 2002. **Budget:** \$27,667,

Public Outreach and Local Involvement. All public outreach and local involvement requirements identified on pages 52 and 61 of the PSP are addressed in this proposal, since the proposed project consists of a local involvement process. All relevant parties are involved and support the project.

D. APPLICABILITY TO CALFED ERP GOALS AND IMPLEMENTATION PLAN AND CVPIA PRIORITIES

1. ERP Goals and CVPIA Priorities

The proposed project is a good-faith effort to ensure that the CALFED ERPP goals can be achieved in partnership with, rather than at the expense of, economic viability of Bypass landowners. The proposed project is to intended increase the likelihood of achieving the following CALFED ERPP goals (where appropriate):

Goal 1: Achieve recovery of at-risk native species dependent on the Delta and the Bypass and minimize the need for future endangered species listings by reversing downward population trends of native species that are not listed (Figure 6).

- All Priority Group I species (Table 4-1, ERPP) are included under this goal, and
- All Priority Group II species (Table 4-1, ERPP) are included under this goal.

Goal 2: Rehabilitate natural processes in the Bay-Delta system to support natural aquatic and associated terrestrial biotic communities.

- Manage Bypass canals and waterways so that they may allow shallow water habitats to be created at economically viable times and locations.
- Increase estuarine productivity by allowing for creation of increased habitat in the Bypass that can contribute increased carbon-based detrital material into the nutrient cycle of the Bay-Delta.
- Reestablish inundation of floodplain-like areas where such inundation is economically and seasonally compatible with agricultural and duck club management practices, using control methods such as removing and rebuilding small control berms.

Goal 3: Maintain and enhance populations of selected species for sustainable commercial and recreational harvest consistent with Goals 1 and 2.

- enhance populations of waterfowl for hunting and for other recreation; and
- maintain fisheries for striped bass, white sturgeon, and non-native game fishes.

Goal 4: Protect or restore functional habitat types for public values such as recreation, scientific research, and aesthetics.

- restore aquatic, wetland, and riparian habitats in the Bypass where compatible with private land-use and flood conveyance requirements;
- increase the area of tidal marsh by removing or breaching levees and opening lands to as much tidal action as possible where economically and functionally feasible and compatible with adjacent land uses; and
- manage portions of the Bypass as seasonal shallow water habitat where economically and functionally feasible and compatible with adjacent land uses.

2. Relationship to Other Ecosystem Restoration Projects

The members of the Working Group are voluntarily and willingly participating in this locally driven process because they believe it is important that their voices be heard and that they have an influence on potential future habitat decisions in the Bypass. A general vision of the Management Strategy project is to create a mosaic of land uses in the Bypass that includes a variety of agricultural and managed habitat types, managed by a variety of private, public, and non-profit entities.

FIGURE 6: Yolo Bypass Species List

| | | |
|-----------------------------------|-------------------------------------|-----------------------------------|
| <u>INSECTS</u> | <u>BIRDS-Raptors (Con't)</u> | <u>BIRDS-Other (Con't)</u> |
| Valley elderberry longhorn beetle | Barn owl | Western meadowlark |
| | Burrowing owl | Western wood-pewee |
| <u>REPTILES</u> | Cooper's hawk | White-breasted nuthatch |
| Giant garter snake | Ferruginous hawk | White-faced ibis |
| Western pond turtle | Great horned owl | Willow flycatcher |
| | Long-eared owl | Yellow warbler |
| <u>BIRDS-Waterfowl</u> | Northern harrier | Yellow-breasted chat |
| Labbling ducks | Osprey | |
| American wigeon | Peregrine falcon | <u>MAMMALS</u> |
| Cinnamon teal | Prairie falcon | Beaver |
| Gadwall | Red-shouldered hawk | Black-tailed deer |
| Green-winged teal | Red-tailed hawk | California ground squirrel |
| Mallard | Rough-legged hawk | California vole |
| Northern pintail | Sharp-shinned hawk | Cottontail |
| Northern shoveler | Short-eared owl | Gopher |
| Living ducks | Swainson's hawk | Jackrabbit |
| Barrow's goldeneye | Western screech owl | Mice |
| Bufflehead | White-tailed kite | Mink |
| Canvasback | | Muskrat |
| Common goldeneye | <u>BIRDS-Other</u> | Raccoon |
| Ring-neck duck | Acorn woodpecker | River otter |
| Ruddy duck | American coots | Skunk |
| Geese and Swans | American pipit | |
| Canada goose | American white pelican | <u>FISH</u> |
| Snow and Ross' goose | Ash-throated flycatcher | American shad |
| Tundra goose | Bank swallow | Bigscale logperch |
| White-fronted goose | Belted kingfisher | Bullhead |
| | Black phoebe | <u>Carp</u> |
| <u>BIRDS-Shorebirds</u> | Black-and-white crappie | Channel catfish |
| American avocet | Bluegill | Chinook salmon |
| Black-bellied plover | California gull | Crappie |
| Black-necked stilt | Double-crested cormorant | Delta smelt |
| Dowitcher | Eared grebe | Fathead minnow |
| Dunlin | Golden shiner | Hitch |
| Greater yellow-leg | Greater sandhill crane | Inland silverside |
| Killdeer | Green sturgeon | Largemouth bass |
| Least sandpiper | Hardhead | Mosquitofish |
| Long-billed curlew | Horned lark | Pacific lamprey |
| Snowy Plover | House finch | Prickly sculpin |
| Western sandpiper | Loggerheadshrike | Sacramento blackfish |
| | Northern flicker | Sacramento pikeminnow |
| <u>BIRDS-Wading</u> | Nuttall's woodpecker | Sacramento splittail |
| American bittern | Pied-billed grebe | Sacramento sucker |
| Black-crowned night-heron | Plain titmice | Smallmouth bass |
| Cattle egret | Purple martin | Steelhead |
| Great blue heron | Ring-billed gull | Striped bass |
| Great egret | Ring-necked pheasant | Sunfish |
| Green-backed heron | Savannah sparrow | Threadfin shad |
| Snowy egret | Say's phoebe | Threespine stickleback |
| | Tree swallow | Tule perch |
| <u>BIRDS-Raptors</u> | Tricolored blackbird | White catfish |
| American kestrel | Violet-green swallow | White sturgeon |
| Bald eagle | Western bluebird | |

It is very important for CALFED decision-makers to realize that the authoring of and involvement in this proposal in no **way** reflects approval, by the Working Group of the proposed **U.S.** Fish and Wildlife Service North Delta National Wildlife Refuge.

E. APPLICANT QUALIFICATIONS

The project will be conducted under the direction of the Working Group and the Foundation. Jones & Stokes personnel will support the Foundation. The Foundation's board of directors will provide guidance for the project.

Yolo Bypass Working Group. The Working Group consists of private landowners and water users in the Bypass and representatives of local, state, and federal agencies associated with the Bypass. The Working Group was created with the assistance of the Foundation through a CALFED grant from the 1998 funding package (Project No. 98E).

Yolo Basin Foundation. The Foundation was founded in 1990 as a community based organization to support the establishment of the 3,700-acre DFG Vic Fazio Yolo Wildlife Area (Wildlife Area). It is a nonprofit public benefit corporation dedicated to educating and inspiring people about wetlands and wildlife of the Central Valley. The 15-member board of directors represents a diverse group of stakeholders, from agriculture and waterfowl conservation to local government and the business community. Since 1990, the Foundation has also served as a clearinghouse for information on restoration activities and stakeholder concerns throughout the Yolo Basin.

Key Foundation Staff:

Contract Manager. Robin Kulakow will serve as the contract manager. As the Foundation's Executive Director, Robin has extensive experience managing consultant contracts, including the current CALFED-funded Management Strategy project. Robin's work led to the establishment of the Wildlife Area, a project that involved coordinating local, state, and federal agency interests and private landowners and water users in the Bypass. Issues successfully addressed through the Wildlife Area project included multiple stakeholder goals, water rights and availability, flood conveyance capacity, compatibility with adjacent agricultural and other land uses, achievement of ecological restoration goals, and negotiation of an MOU on endangered species and flood control signed by multiple agencies. Robin has a bachelor's degree in soil science from U.C. Berkeley and a master of administration degree from U.C. Davis.

Key Jones & Stokes Staff:

Project Manager, Environmental Planner, and Facilitation Specialist. Dave Ceppos is a facilitation/conflict resolution specialist and environmental planner with more than 15 years of experience with projects involving habitat enhancement efforts relating to agricultural land. Dave is the facilitator/mediator for CALFED's North Delta Improvement Group, the Cosumnes River Task Force, the Mokelumne-Cosumnes Watershed Alliance, and the Cache Creek Stakeholders Group. Dave is the manager and facilitator of the Lower Butte Creek Project, a stakeholder-driven effort that focuses on developing mutually beneficial solutions for improving fish passage while maintaining the viability of agricultural, seasonal wetlands, and other habitats and land-use concerns. Dave is a Jones & Stokes' project manager and chief public involvement facilitator for the current Management Strategy project. Dave received a B.A. in landscape architecture from the University of Florida, Gainesville, in 1985.

Economist. Nick Dennis is a resource economist and a registered professional forester with more than 20 years of experience in natural resources planning. Nick prepared a statewide assessment of the impacts of farmland conversion in California and the agricultural element of the Sacramento County general plan update. Nick also assessed agricultural, economic, and fiscal impacts of the proposed North Delta National Wildlife Refuge (NDNW Refuge) as the project's senior economics analyst. Nick received a Ph.D. in forest economics from the University of California, Berkeley, in 1981; and

an M.S. and a B.S. in forestry from the University of Wisconsin, Madison, in 1974 and 1972, respectively.

Hydrologist. Gus Yates is a certified professional hydrologist with more than 17 years of experience in groundwater and surface-water-flow modeling and interactions between surface water, aquatic, and riparian habitats. Gus specializes in mathematical modeling and other analytical techniques to design alternatives for water supply, flood control, and habitat restoration projects and investigates their effects on water users and the environment. Gus conducted hydrologic analyses, including assessments of the effects of habitat restoration alternatives on flood conveyance capacity, for the environmental assessment for the proposed **NDNW** Refuge and is currently conducting hydrologic studies as part of the Management Strategy project. Gus received an M.S. in water science from the University of California, Davis, in 1985; and a B.A. in geology from Harvard University, Cambridge, Massachusetts, in 1979. Gus received certification as a professional hydrogeologist from the American Institute of Hydrology in 1992.

Fish Habitat/Population Specialist. Warren Shaul is a fishery biologist with more than 19 years of experience in fish population modeling, statistical design and application, impact analysis, and fishery management. Warren has extensive experience evaluating cause-and-effect relationships for fish species and integrating new information into impact assessment models. Warren is an expert on the life histories and habitat needs of fish species in the Delta and in rivers tributary to the Delta. Warren is currently assisting with investigating fish habitat enhancement options for the Bypass as part of the Management Strategy project. Warren received an M.S. in fisheries from Oregon State University, Corvallis, in 1984; and a B.S. in biology from Humboldt State University, Arcata, California, in 1972.

Restoration Ecologist. Steve Chainey is a restoration ecologist with expertise in natural resource planning and ecological restoration. Steve contributed to natural resource management plans for the buffer lands of the Sacramento Wastewater Treatment Plant, the University of California's Putah Creek Riparian Reserve, the Wildlife Area, and the Management Strategy project. His wetland and riparian restoration projects include irrigation canal and slough revegetation for the Yolo County Flood Control and Water Conservation District and wildlife and wetland habitat enhancements in flood detention basins for private developers and for City of Davis. Steve has additional expertise in the coordination of flood control plans and hydraulic modeling with vegetation management and landform design for habitat in floodways. Steve received an M.S. in range and wildlands science and a B.S. in landscape architecture from the University of California, Davis, in 1987 and 1984, respectively; and an A.A. in industrial electricity from the Electronics Institute, Pittsburgh, Pennsylvania, in 1979.

Potential Conflicts of Interest or Problems with Availability: The project team (the Working Group, the Foundation, and Jones & Stokes) does not have any conflicts of interest or any potential problem with availability to do the proposed work within the proposed timeline.

F. COST

1. Budget

The total budget for the proposed project is \$467,147. The proposed project schedule is presented in Figure 5. The total project is expected to last for 15 months. The detailed cost breakdown is presented in Figure 7. Services to be provided by Jones & Stokes are reflected in the "Service Contracts" column of Figure 7.

The Foundation uses an overhead rate of 32 percent. This rate was determined in accordance with Office of Management and Budget Circular A-122 and the Guide for Nonprofit Organizations for preparing indirect-cost rate published by the U.S. Environmental Protection Agency. This is the rate the Foundation established for federal grants as required by the National Fish and Wildlife Foundation for the 1998 CALFED grant that is funding the ongoing Management Strategy project. The Foundation does not have an established rate for state funds as we have not been awarded any state funds requiring this recently. If state funds are awarded, it is anticipated that the same rate would be used. The overhead rate includes general office and organizations operations costs such as rent, office supplies, liability insurance, bookkeeping, telephone, administrative assistance, and management of general organizational requirements. Project management services account for 5.9 percent of the total proposed budget.

FIGURE 7 Yolo Bypass Management Strategy, Phase II: Cost Estimate

| Year | Task | Direct Labor Hours | Salary | Benefits | Travel | Supplies & Expendable | Service Contracts | Overhead (32%) | Equipment | Graduate Student Fee Remission | Total Cost |
|--------------------|-------------------|--------------------|----------|----------|--------|-----------------------|-------------------|----------------|-----------|--------------------------------|------------|
| Year 1 | Task 1 | 288 | \$17,280 | \$4,320 | | | \$63,802 | \$6,912 | | | \$92,114 |
| | Task 2 | 66 | \$3,960 | \$990 | | | \$69,885 | \$1,584 | | | \$76,419 |
| | Task 3 | 40 | \$2,400 | \$600 | | | \$82,638 | \$960 | | | \$86,598 |
| | Task 4 | 120 | \$7,200 | \$1,800 | | | \$15,224 | \$2,880 | | | \$27,104 |
| | Task 5 | 40 | \$2,400 | \$600 | | | \$88,489 | \$960 | | | \$92,449 |
| | Task 6 | 0 | | | | | | | | | \$0 |
| | Task 7 - Proj Mgt | 40 | \$2,400 | \$600 | | | \$18,285 | \$960 | | | \$22,245 |
| Total Cost Year 1 | | | \$35,640 | \$8,910 | \$0 | \$0 | \$338,123 | \$14,256 | \$0 | \$0 | \$396,929 |
| Year 2 | Task 1 | 72 | \$4,320 | \$1,080 | | | \$15,900 | \$1,728 | | | \$23,028 |
| | Task 2 | 16 | \$960 | \$240 | | | \$17,471 | \$384 | | | \$19,055 |
| | Task 3 | 0 | | | | | | | | | \$0 |
| | Task 4 | 0 | | | | | | | | | \$0 |
| | Task 5 | 0 | | | | | | | | | \$0 |
| | Task 6 | 70 | \$4,200 | \$1,050 | | | \$15,783 | \$1,680 | | | \$22,713 |
| | Task 7 - Proj Mgt | 10 | \$600 | \$150 | | | \$4,432 | \$240 | | | \$5,422 |
| Total Cost Year 2 | | | \$10,080 | \$2,520 | \$0 | \$0 | \$53,586 | \$4,032 | \$0 | \$0 | \$70,218 |
| Total Project Cost | | | \$45,720 | \$11,430 | \$0 | \$0 | \$391,709 | \$18,288 | \$0 | \$0 | \$467,147 |

G. LOCAL INVOLVEMENT

Assemblywoman Helen MacLeod Thomson of the Eighth Assembly District ~~has~~ written a letter supporting the project. A copy of this letter is provided in Appendix C.

H. COMPLIANCE WITH STANDARD TERMS AND CONDITIONS

All applicable state and federal forms are provided under Threshold Requirements.

I. LITERATURE CITED

Please see the listing of reference materials located in Appendix B.

J. THRESHOLD REQUIREMENTS

This section of the applicant's proposal contains the following items.

Letters of Notification

Environmental Compliance Checklist

Land Use Checklist

State Forms

 Nondiscrimination Compliance

 Service & Consultant Service Contracts for \$5,000 & Over with Nonpublic Entities

 Additional Standard Clauses

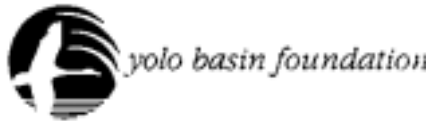
Federal Forms

 STD 424

 STD 424A

 STD 424B

 DI-2010



.....
P.O. Box 944
Davis, California
95617
(530) 756-7248

May 12,2000

Lois Wolk
Chair, Yolo County Board of Supervisors
625 Court Street, Room 204
Woodland, CA 95695

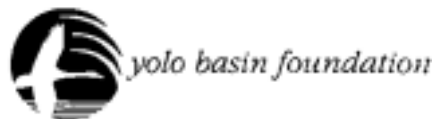
Dear Lois,

This letter and enclosed proposal provide notification **of** the Yolo Basin Foundation's submittal of a Calfedproposal to conduct Phase II of the Yolo Bypass Management Strategy. **If** you have any questions please call me at (530) 756-7248. Thank you.

Sincerely,

A handwritten signature in dark ink, reading 'Robin Kulakow'. The signature is written in a cursive, flowing style.

Robin Kulakow
Executive Director



P.O. Box 943
Davis, California
95617
530 756-7248

May 12,2000

Catherine McCarthy
Senior Planner
601 Texas Street
Fairfield, CA 94533

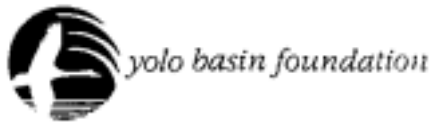
Dear Catherine,

This letter and enclosed proposal provide notification of the Yolo Basin Foundation's submittal of a Calfed'proposal to conduct Phase II of the Yolo Bypass Management Strategy. If you have any questions please call me at (530)756-7248. Thank you.

Sincerely,

A handwritten signature in dark ink, reading 'Robin Kulakow'. The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Robin Kulakow
Executive Director



P.O. Box 943
Davis, California
95617
(530) 756-7248

May 12, 2000

Margit Aramburu
Executive Director
Delta Protection Commission
14215 River Road
P.O. Box 530
Walnut Grove, CA 95690

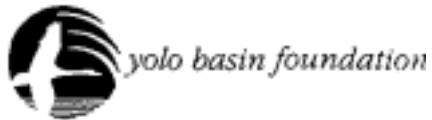
Dear Margit,

This letter and enclosed proposal provide notification of the Yolo Basin Foundation's submittal of a Calfed proposal to conduct Phase II of the Yolo Bypass Management Strategy. If you have any questions please call me at (530) 756-7248. Thank you.

Sincerely,

A handwritten signature in dark ink, reading "Robin Kulakow". The signature is written in a cursive, flowing style.

Robin Kulakow
Executive Director



P.O. Box 943
Davis, California
95617
(530) 756-7248

May 12,2000

Skip Thomson
Solano Board of Supervisors
5752 Weber Road
Vacaville, CA 95687

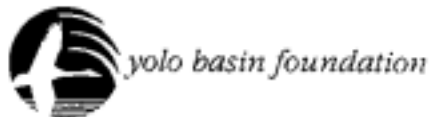
Dear Skip,

This letter and enclosed proposal provide notification of the Yolo Basin Foundation's submittal of a Calfed proposal to conduct Phase II of the Yolo Bypass Management Strategy. **If** you have any questions please call me at (530) 756-7248. Thank you.

Sincerely,

A handwritten signature in dark ink, reading "Robin Kulakow". The signature is written in a cursive, flowing style.

Robin Kulakow
Executive Director



P.O. Box 943
Davis, California
95617
530 756 7248

May 12, 2000

Assemblywoman Helen Thomson
8th Assembly District
Capitol Building, Room 4140
Sacramento, CA 95814

Dear Helen.

This letter and enclosed proposal provide notification of the Yolo Basin Foundation's submittal of a Calfed proposal to conduct Phase II of the Yolo Bypass Management Strategy. If you have any questions please call me at (530) 756-7248. Thank you.

Sincerely,

A handwritten signature in cursive script that reads "Robin Kulakow".

Robin Kulakow
Executive Director



yolo basin foundation

P.O. Box 943
Davis, California
95617
(530) 756-7248

May 12, 2000

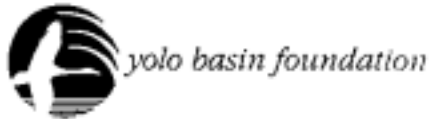
David Morrison
Yolo County Planning Department
292 W. Beamer
Woodland, CA 95695-2511

Dear David.

This letter and enclosed proposal provide notification of the Yolo Basin Foundation's submittal of a Calfed proposal to conduct Phase II of the Yolo Bypass Management Strategy. If you have any questions please call me at (530) 756-7248. Thank you.

Sincerely,

Robin Kulakow
Executive Director



P.O. Box 943
Davis, California
95617
530 756 7248

May 12, 2000

Dave Feliz
Wildlife Area Manager
Yolo Bypass Wildlife Area
45211 County Road 32 B
Davis, CA 95616

Dear Dave.

This letter and enclosed proposal provide notification of the Yolo Basin Foundation's submittal of a Calfed proposal to conduct Phase II of the Yolo Bypass Management Strategy. If you have any questions please call me at (530) 756-7248. Thank you.

Sincerely,

A handwritten signature in dark ink, reading "Robin Kulakow". The signature is written in a cursive, flowing style.

Robin Kulakow
Executive Director

Environmental Compliance Checklist

All applicants must fill out this Environmental Compliance Checklist. Applications must contain answers to the following questions to be responsive and to be considered for funding. **Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.**

1. Do any of the actions included in the proposal require compliance with either the California Environmental Quality Act (CEQA), the National Environmental Policy Act (NEPA), or both?

YES

 X
NO

2. If you answered yes to # 1, identify the lead governmental agency for CEQA/NEPA compliance.

Lead Agency

3. If you answered **no** to # 1, explain why CEQA/ NEPA compliance is not required for the actions in the proposal.

This proposal will result in **no** state or federal discretionary action that would be considered a project under **CEQA** or **an** action under **NEPA**.

4. If CEQA/NEPA compliance is required, describe how the project will comply with either or both of these laws. Describe where the project is in the compliance process and the expected date of completion.

5. Will the applicant require access across public or private property that the applicant does not own to accomplish the activities in the proposal?

YES

 X
NO

If yes, the applicant must attach written permission for access from the relevant property owner(s). Failure to include written permission for access may result in disqualification of the proposal during the review process. Research and monitoring field projects for which specific field locations have not been identified will be required to provide access needs and permission for access with **30** days of notification of approval.

The existing and proposed projects include all landowners in the Bypass. Should any particular site access be desired at a later date, this can be dealt with through the **Working** Group.

6. Please indicate what permits **or** other approvals may be required **for** the activities contained in your proposal. Check all boxes that apply.

LOCAL

| | |
|------------------------------|-----------------|
| Conditional use permit | _____ |
| Variance | _____ |
| Subdivision Map Act approval | _____ |
| Grading permit | _____ |
| General plan amendment | _____ |
| Specific plan approval | _____ |
| Rezone | _____ |
| Williamson Act Contract | _____ |
| cancellation | _____ |
| Other _____ | |
| (pl ease specify) | |
| None required | <u>X</u> |

STATE

| | | |
|-----------------------------|-----------------|---------------------------|
| CESA Compliance | _____ | (CDFG) |
| Streambed alteration permit | _____ | (CDFG) |
| CWA § 401 certification | _____ | (RWQCB) |
| Coastal development permit | _____ | (Coastal Commission/BCDC) |
| Reclamation Board approval | _____ | |
| Notification | _____ | (DPC, BCDC) |
| Other _____ | | |
| (please specify) | | |
| None required | <u>X</u> | |

FEDERAL

| | | |
|-----------------------------|-----------------|---------|
| ESA Consultation | _____ | (USFWS) |
| Rivers & Harbors Act permit | _____ | (ACOE) |
| CWA §404 permit | _____ | (ACOE) |
| Other _____ | | |
| (please specify) | | |
| None required | <u>X</u> | |

DPC = Delta Protection Commission
CWA = Clean Water Act
CESA = California Endangered Species Act
USFWS = U.S. Fish and Wildlife Service
ACOE = U.S. Army Corps of Engineers

ESA = Endangered Species Act
CDFG = California Department of Fish and Game
RWQCB = Regional Water Quality Control Board
BCDC = Bay Conservation and Development Comm.

Land Use Checklist

All applicants must fill out this Land Use Checklist for their proposal. Applications must contain answers to the following questions to be responsive and to be considered for funding. **Failure to answer these questions and include them with the application will result in the application being considered nonresponsive and not considered for funding.**

1. Do the actions in the proposal involve physical changes to the land (i. e. grading, planting vegetation, or breaching levees) or restrictions in land use (i. e. conservation easement or placement of land in a wildlife refuge)?

YES

 X
NO

2. If NO to # 1, explain what type of actions are involved in the proposal (i.e., research only, planning only).

Economic analysis of land use compensation rates, hydraulic and hydrologic modeling, development of an MOU , and cost/benefit analyses.

3. If YES to # 1, what is the proposed land use change or restriction under the proposal?

4. If YES to # 1, is the land currently under a Williamson Act contract?

YES

NO

5. If YES to # 1, answer the following:

Current land use

Current zoning

Current general plan designation

6. If YES to #1, is the land classified as Prime Farmland, Farmland of Statewide Importance or Unique Farmland on the Department of Conservation Important Farmland Maps?

YES

NO

DON'T KNOW

7. If YES to # 1, how many acres of land will be subject to physical change or land use restrictions under the proposal?

8. If YES to # 1, is the property currently being commercially farmed or grazed?

YES

NO

9. If YES to #8, what are

the number of employees _____

the total number of employees _____

10. Will the applicant acquire any interest in land under the proposal (fee title **or a conservation easement)?**

YES

X
NO

11. What entity/organization will hold the interest? _____

12. If YES to # **10**, answer the following:

Total number of acres to be acquired under proposal

Number of acres to be acquired in fee

Number of acres to be subject to conservation easement

13. For all proposals involving physical changes to the land or restriction in land use, describe what entity or organization will:

manage the property

provide operations and maintenance services

conduct monitoring

14. For land acquisitions (fee title **or easements), will existing water rights also be acquired?**

YES

NO

15. Does the applicant propose **any** modifications to the water right or **change** in the delivery **of** the water?

YES

X
NO

16. If YES to # 15, describe _____

NONDISCRIMINATION COMPLIANCE STATEMENT

STD. 19 (REV. 3-95)

COMPANY NAME

Yolo Basin Foundation, Inc.

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990(a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), medical condition (cancer), age (over 40), marital status, denial of family care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME

Robin J. Kulakow

DATE EXECUTED

5/15/00

EXECUTED IN THE COUNTY OF

Yolo

PROSPECTIVE CONTRACTOR'S SIGNATURE

Robin J. Kulakow

PROSPECTIVE CONTRACTOR'S TITLE

Executive Director

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME

Yolo Basin Foundation, Inc.

**STANDARD UAUSES -
SERVICE & CONSULTANT SERVICE CONTRACTS FOR \$5,000 & OVER WITH NONPUBLIC ENTITIES**

Workers' Compensation Clause. Contractor affirms that it is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor affirms that it will comply with such provisions before commencing the performance of the work under this contract.

National Labor Relations Board Clause. In accordance with Public Contract Code Section 10296, Contractor declares under penalty of perjury that no more than one final, unappealable finding of contempt of court by a federal court has been issued against the Contractor within the immediately preceding two-year period because of Contractor's failure to comply with an order of a federal court which orders Contractor to comply with an order of the national Labor Relations Board.

Nondiscrimination Clause. During the performance of this contract, the recipient, Contractor and its subcontractors shall not deny the contract's benefits to any person on the basis of religion, color, ethnic group identification, sex, age, physical or mental disability, nor shall they discriminate unlawfully against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical handicap, mental disability, medical condition, marital status, age (over 40), or sex. Contractor shall insure that the evaluation and treatment of employees and applicants for employment are free of such discrimination. Contractor shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12900 et seq.), the regulations promulgated thereunder (California Administrative Code, Title 2, Sections 7285.0 et seq.), the provisions of Article 9.5, Chapter 1, Part 1, Division 3, Title 2 of the Government Code (Government Code Sections 11135 - 11139.5), and the regulations or standards adopted by the awarding State agency to implement such article. Contractor or recipient shall permit access by representatives of the Department of Fair Employment and Housing and the awarding State agency upon reasonable notice at any time during the normal business hours, but in no case less than 24 hours' notice, to such of its books, records, accounts, other sources of information and its facilities as said Department or Agency shall require to ascertain compliance with this clause. Recipient, Contractor and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement. The Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the contract.

Statement of Compliance. The Contractor's signature affixed heron and dated shall constitute a certification under penalty of perjury under the laws of the State of California that the Contractor has, unless exempted, complied with the nondiscrimination program requirements of Government Code Section 12990 and Title 2, California Code of Regulations, Section 8103.

Performance Evaluation. For consulting service agreements, Contractor's performance under this contract will be evaluated after completion. A negative evaluation will be filed with the Department of General Services.

Availability of Funds. Work to be performed under this contract is subject to availability of funds through the State's normal budget process.

Audit Clause. For contracts in excess of \$10,000, the contracting parties shall be subject to the examination and audit of the State Auditor for a period of three years after final payment under the contract. (Government Code Section 8546.7).

Payment Retention Clause. Ten percent of any progress payments that may be provided for under this contract shall be withheld per Public Contract Code Sections 10346 and 10379 pending satisfactory completion of all services under the contract.

Reimbursement Clause. If applicable, travel and per diem expenses to be reimbursed under this contract shall be at the same rates the State provides for unrepresented employees in accordance with the provisions of Title 2, Chapter 3, of the California Code of Regulations. Contractor's designated headquarters for the purpose of computing such expenses shall be: Davis, CA

Disabled Veteran Business Enterprise Participation Requirement Audit Clause. Contractor or vendor agrees that the awarding department or its delegates will have the right to review, obtain, and copy all records pertaining to performance of the contract. Contractor or vendor agrees to provide the awarding department or its delegate access to its premises, upon reasonable notice, during normal business hours for the purpose of interviewing employees and inspecting and copying such books, records, accounts, and other material that may be relevant to a matter under investigation for the purpose of determining compliance with Public Contract Code Section 10115 et seq. Contractor or vendor further agrees to maintain such records for a period of three (3) years after final payment under the contract. Title 2 CCR Section 1896.75.

Priority Hiring Considerations. For contracts in excess of \$200,000, the Contractor shall give priority consideration in filling vacancies in positions funded by the contract to qualified recipients of aid under Welfare and Institutions Code Section 11200. (Public Contract Code Section 10353).

Drug-Free Workplace Certification. By signing this contract, the Contractor or grantee hereby certifies under penalty of perjury under the laws of the State of California that the Contractor or grantee will comply with the requirements of the Drug-Free Workplace Act of 1990 (Government Code Section 8350 et seq.) and will provide a drug-free workplace by taking the following actions:

1. Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations.
2. Establish a Drug-Free Awareness Program to inform employees about all of the following:
 - (a) The dangers of drug abuse in the workplace,
 - (b) The person's or organization's policy of maintaining a drug-free workplace,
 - (c) Any available counseling, rehabilitation and employee assistance programs, and
 - (d) Penalties that may be imposed upon employees for drug abuse violations.
3. Every employee who works on the proposed contract or grant
 - (a) Will receive a copy of the company's drug-free policy statement, and
 - (b) Will agree to abide by terms of the company's statement as a condition of employment on the contract or grant.

This contract or grant may be subject to suspension of payments or termination, or both, and the Contractor or grantee may be subject to debarment if the department determines that: (1) the Contractor or grantee has made a false certification, or (2) the Contractor or grantee violates the certification by failing to carry out the requirements noted above.

Antitrust Claims. In submitting a bid to a public purchasing body, the bidder offers and agrees that if the bid is accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder. See Government Code Section 4552.

If an awarding body or public purchasing body received, either through judgment or settlement, a monetary recovery for a cause of action assigned under this chapter, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the public body any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the public body as part of the bid price, less the expenses incurred in obtaining that portion of the recovery. See Government Code Section 4553.

Upon demand in writing by the assignor, the assignee shall, within one year from such demand, reassign the cause of action assigned under this part if the assignor has been or may have been injured by the violation of law for which the cause of action arose and (a) the assignee has not been injured thereby, or (b) the assignee declines to file a court action for the cause of action. See Government Code Section 4554.

Americans With Disabilities Act. By signing this contract, Contractor assures the state that it complies with the Americans With Disabilities Act (ADA) of 1990, (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability, as well as all applicable regulations and guidelines issued pursuant to the ADA.

Corporate Qualifications To Do Business In California. Contractor must be currently qualified to do business in California as defined by the Revenue & Taxation Code, Section 23101 unless exempted. Both domestic and foreign corporations (those incorporated outside of California) must be in good standing in order to be qualified to do business in California.

Former State Employees: a) For the two-year period from the date he or she left State employment, no former State officer or employee may enter into a contract in which he or she engaged in any of the negotiations, transactions, planning, arrangements or any part of the decision-making process relevant to the contract while employed in any capacity by any State agency. b) For the twelve-month period from the date he or she left State employment, no former State officer or employee may enter into a contract with any State agency if he or she was employed by that State agency in a policy-making position in the same general subject area as the proposed contract within the twelve-month period prior to his or her leaving State service.

Agreement No. : _____

Exhibit: _____

ADDITIONAL STANDARD CLAUSES

Recycled Materials. Contractor hereby certifies under penalty of perjury that 0 (enter value or "0") percent of the materials, goods and supplies offered or products used in the performance of this Agreement meet or exceed the minimum percentage of recycled material as defined in Sections 12161 and 12200 of the Public Contract Code.

Severability. If any provision of this Agreement is held invalid or unenforceable by any court of final jurisdiction, it is the intent of the parties that all other provisions of this Agreement be construed to remain fully valid, enforceable, and binding on the parties.

Governing Law. This Agreement is governed by and shall be interpreted in accordance with the laws of the State of California.

Y2K Language. The Contractor warrants and represents that the goods or services sold, leased, or licensed to the State of California, its agencies, or its political subdivisions, pursuant to this Agreement are "Year 2000 compliant" For purposes of this Agreement. **a good** or service is **Year** 2000 compliant if it will continue to fully function before, at, and after the Year 2000 without interruption and, if applicable, with full ability to accurately and unambiguously process, display, compare, calculate, manipulate, and otherwise utilize date information. **This warranty** and representation supersedes all warranty disclaimers and limitations and all limitations on liability provided by or through the Contractor.

Child Support Compliance Act. For any agreement in excess of \$100,000, the Contractor acknowledges in accordance therewith, that:

1. The Contractor recognizes the importance of child and family support obligations and shall fully comply with all applicable State and federal laws relating to child and family support enforcement, including, but not limited to, disclosure of information and compliance with earnings assignment orders, as provided in Chapter 8 (commencing with Section 5200) of Part 5 of Division 9 of the Family Code; and
2. The Contractor, to the best of its knowledge, is fully complying with the earnings assignment orders of all employees and is providing the names of all new employees to the New Hire Registry maintained by the California Employment Development Department.

APPLICATION FOR FEDERAL ASSISTANCE

OMB Approval No. 0348-0043

| | | | |
|---|----------------------------|---|------------------------------|
| TYPE OF SUBMISSION: Application <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction Preapplication <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction | | 2. DATE SUBMITTED <u>May 15, 2000</u> | Applicant Identifier |
| | | 3. DATE RECEIVED BY STATE | State Application Identifier |
| | | 4. DATE RECEIVED BY FEDERAL AGENCY | Federal Identifier |
| 5. APPLICANT INFORMATION | | | |
| Legal Name: <u>Yolo Basin Foundation, Inc</u> | | Organizational Unit: | |
| Address (give city, county, State, and zip code): <u>PO Box 943</u> <u>Davis, CA 95617 (Yolo Co.)</u> | | Name and telephone number of person to be contacted on matters involving this application (give area code) <u>Robin Kulakow 530-756-7248</u> | |
| 6. EMPLOYER IDENTIFICATION NUMBER (EIN): <u>68-0230311</u> | | 7. TYPE OF APPLICANT: (enter appropriate letter in box) | |
| 8. TYPE OF APPLICATION: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision If Revision, enter appropriate letter(s) in box(es) <input type="checkbox"/> <input type="checkbox"/> A. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration Other (specify): _____ | | A. State H. Independent School Dist. <input checked="" type="checkbox"/> B. County I. State Controlled Institution of Higher Learning C. Municipal J. Private University D. Township K. Indian Tribe E. Interstate L. Individual F. Intermunicipal M. Profit Organization G. Special District N. Other (Specify) <u>Nonprofit Corp.</u> | |
| | | 9. NAME OF FEDERAL AGENCY | |
| | | 11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: <u>Yolo Bypass Management Study, Phase II</u> | |
| 10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: TITLE <u>Yolo, Solano (Calif.)</u> | | 12. AREAS AFFECTED BY PROJECT (Cities, Counties, States, etc.): | |
| 13. PROPOSED PROJECT | | 14. CONGRESSIONAL DISTRICTS OF | |
| Start Date <u>2/01</u> | Ending Date <u>5/02</u> | a. Applicant <u>Third</u> | |
| 15. ESTIMATED FUNDING: | | b. Project <u>Third</u> | |
| a. Federal | \$ _____ | 16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS? a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE _____ b. No. <input type="checkbox"/> PROGRAM IS NOT COVERED BY E. O. 12372 <input checked="" type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW | |
| b. Applicant | \$ _____ | | |
| c. State | \$ _____ | | |
| d. Local | \$ _____ | | |
| e. Other | \$ _____ | | |
| f. Program Income | \$ _____ | | |
| g. TOTAL | \$ <u>467,147</u> | | |
| 17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? | | 18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT, THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED. | |
| <input type="checkbox"/> Yes If "Yes," attach an explanation. | | <input checked="" type="checkbox"/> No | |
| Type Name of Authorized Representative <u>Robin J. Kulakow</u> | | b. Title <u>Executive Director</u> | |
| c. Telephone Number <u>(530) 756-7248</u> | | e. Date Signed <u>5/11/00</u> | |
| d. Signature of Authorized Representative <u>Robin J. Kulakow</u> | | | |

BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 0348.0044

SECTION A - BUDGET SUMMARY

| Grant Program Function or Activity (a) | Catalog of Federal Domestic Assistance Number (b) | Estimated Unobligated Funds | | New or Revised Budget | | |
|---|--|-----------------------------|--------------------|-----------------------|--------------------|--------------|
| | | Federal (c) | Non-Federal (d) | Federal (e) | Non-Federal (f) | Total (g) |
| 1. Unknown | Unknown | \$ Unknown | \$ Unknown | \$ N/A | \$ N/A | \$ Unknown |
| 2. " | " | " | " | " | " | " |
| 3. " | " | " | " | " | " | " |
| 4. " | " | " | " | " | " | " |
| 5. Totals | " | \$ " | \$ " | \$ " | \$ " | \$ " |

SECTION B - BUDGET CATEGORIES

| 6. Object Class Categories | GRANT PROGRAM, FUNCTION OR ACTIVITY | | | | Total (5) |
|--|-------------------------------------|-------------|-------------|-------------|--------------|
| | (1) Unknown | (2) Unknown | (3) Unknown | (4) Unknown | |
| a. Personnel | \$ | \$ | \$ | \$ | \$ |
| b. Fringe Benefits | | | | | |
| c. Travel | | | | | |
| d. Equipment | | | | | |
| e. Supplies | | | | | |
| f. Contractual | | | | | |
| g. Construction | | | | | |
| h. Other | | | | | |
| i. Total Direct Charges (sum of 6a-6h) | | | | | |
| j. Indirect Charges | | | | | |
| k. TOTALS (sum of 6i and 6j) | \$ | \$ | \$ | \$ | \$ |
| 7. Program Income | \$ | \$ | \$ | \$ | \$ |

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Standard Form 424A (Rev. 7-97)
Prescribed by OMP Circular A-102

| SECTION C - NON-FEDERAL RESOURCES | | | | | |
|---|--------------------------------|-----------------------|-------------------|-------------|-------------|
| (a) Grant Program | (b) Applicant | (c) State | (d) Other Sources | (e) TOTALS | |
| 8. <u>Unknown</u> | \$ | \$ | \$ | \$ | |
| 9. <u>1</u> | | | | | |
| 10. <u>1</u> | | | | | |
| 11. <u>1</u> | | | | | |
| 12. TOTAL (sum of lines 8-11) | \$ | \$ | \$ | \$ | |
| SECTION D - FORECASTED CASH NEEDS | | | | | |
| | Total for 1st Year | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter |
| 13. Federal | \$ | \$ | \$ | \$ | \$ |
| 14. Non-Federal | | | | | |
| 15. TOTAL (sum of lines 13 and 14) | \$ 396,929 | \$ 119,078.7 | \$ 119,078.7 | \$ 79,385.8 | \$ 79,385.8 |
| SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT | | | | | |
| (a) Grant Program | FUTURE FUNDING PERIODS (Years) | | | | |
| | (b) First | (c) Second | (d) Third | (e) Fourth | |
| 16. <u>Unknown</u> | \$ | \$ | \$ | \$ | |
| 17. <u>1</u> | | | | | |
| 18. <u>1</u> | | | | | |
| 19. <u>1</u> | | | | | |
| 20. TOTAL (sum of lines 16-19) | \$ | \$ | \$ | \$ | |
| SECTION F - OTHER BUDGET INFORMATION | | | | | |
| 21. Direct Charges: | | 22. Indirect Charges: | | | |
| 23. Remarks: | | | | | |

ASSURANCES • NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (03486040) Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 5794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333). regarding labor Standards for federally-assisted construction subagreements.
10. **VM** comply, if applicable, with *flood* insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special *flood* hazard area to participate in the program and to purchase *flood* insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential wmponents of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Presevation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, 'Audits of States, Local Governments, and Non-Profit Organizations.'
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL

Rahin Q Kulakaw

TITLE

Executive Director

APPLICANT ORGANIZATION

Yolo Basin Foundation, Inc.

DATE SUBMITTED

5/14/00

U.S. Department of the Interior

Certifications Regarding Debarment, Suspension and
Other Responsibility Matters, **Drug-Free** Workplace
Requirements and Lobbying

Persons signing this form should refer to the regulations referenced below for complete instructions:

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - The prospective primary participant further agrees by submitting this proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. See below for language to be used; use this form for certification and sign; or use Department of the Interior Form 1954 (DI-1954). (See Appendix A of Subpart D of 43 CFR Part 12.)

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)

Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12.)

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction, grant, cooperative agreement or loan.

PART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters -
Primary Covered Transactions

CHECK ☒ IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
- (a) ~~Are not presently debarred~~, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) ~~Have not within a three-year period~~ preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) ~~Are not presently indicted for or otherwise~~ criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - (d) ~~Have not within a three-year period~~ preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) ~~Where the prospective~~ primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.
-

PARTE: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -
Lower Tier Covered Transactions

CHECK ☐ IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE.

- (1) ~~The prospective lower tier participant certifies~~, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) ~~Where the prospective lower tier participant is unable to certify~~ to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

PARTC: Certification Regarding Drug-Free Workplace Requirements

CHECK ☒ IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS NOT AN INDIVIDUAL.

Alternate I. (Grantees Other Than Individuals)

A. The grantee certifies that it will or continue to provide a drug-free workplace by:

- (a) ~~Publishing a statement notifying~~ employees that the unlawful manufacture, distribution, dispensing, possession, or use of a ~~controlled substance is prohibited~~ in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing an ongoing drug-free awareness program to inform employees about—
 - (1) The dangers of drug abuse in the workplace;
 - (2) The grantee's policy of maintaining a drug-free workplace;
 - (3) Any available drug counseling, rehabilitation, and employee assistance programs; and
 - (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) ~~Making it a requirement that each~~ employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) ~~Notifying the employee~~ in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee ~~will~~ —
 - (1) Abide by the terms of the statement; and
 - (2) ~~Notify the employer in writing of~~ his or her conviction for a violation of a criminal drug statute occurring in the ~~workplace~~ no later than five calendar days after such conviction;
- (e) ~~Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification number(s) of each affected grant;~~
- (f) ~~Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted —~~
 - (1) ~~Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or~~
 - (2) ~~Requiring such employee to participate~~ satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- (g) ~~Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a), (b), (c), (d), (e) and (f).~~

B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, state, zip code)

Check ☐ if there are workplaces on file that are not identified here.

PARTD Certification Regarding Drug-Free Workplace Requirements

CHECK ☐ IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS AN INDIVIDUAL.

Alternate II. (Grantees Who Are Individuals)

- (a) ~~The grantee~~ certifies that, as a condition of the grant, he or she ~~will~~ not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant;
- (b) ~~If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, he or she will report the conviction, in writing, within 10 calendar days of the conviction, to the grant officer or other designee, unless the Federal agency designates a central point for the receipt of such notices. When notice is made to such a central point, it shall include the identification number(s) of each affected grant.~~

PART E: Certification Regarding Lobbying
Certification **for** Contracts, Grants, Loans, and Cooperative Agreements

CHECK ☒ IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT, SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.

CHECK ☐ IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or ~~will~~ be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or ~~will~~ be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL

Robin J. Kulakow

TYPED NAME AND TITLE

Robin J. Kulakow

DATE

5/14/00

APPENDIX A. NEXT PHASE FUNDING REQUEST

Project Description and Status: This proposal is the next phase in CALFED Project No. 98E-11, Ecosystem Restoration Strategy for the Yolo Bypass (Bypass) funded under the Watershed Stewardship Category. The project name was changed to the Yolo Bypass Management Strategy during the initial planning process. The Yolo Basin Foundation (Foundation) is ten months into a 15-month process to develop a locally driven, long-term management strategy for the entire Bypass (Figure 1). The final product of this project (expected by summer 2000) is a document entitled "Yolo Bypass Management Strategy" (Management (Strategy) (Figure 2)). The purpose of this project is to create a Yolo Bypass Working Group (Workmg Group) of landowners, water users, and agencies involved in management or regulation of activities in the Bypass.

Project Team: Robin Kulakow, Foundation Executive Director, serves as Contract Manager. Team members from Jones & Stokes (the project consultant) include Mike Rushton, Principal-in-Charge; Dave Ceppos, Project Manager, Facilitation/Stakeholder Development Specialist, and Natural Resource Planner; Steve Chainey, Restoration Ecologist; Warren Shaul, Fish Habitat/Population Specialist; and Gus Yates, Hydrologist. Ted Sommer, Fisheries Specialist with the California Department of Water Resources, has also provided technical consultation.

Project Fiscal Status: Project budget is \$244,188. It is proceeding on budget.

Regulatory/Implementation Issues: There currently are no outstanding regulatory or implementation issues that affect Phase I of this project. The proposed Phase II project would address regulatory and implementation issues identified by the Working Group as part of Task 4 (development of a memorandum of understanding between the agencies and the Working Group).

Accomplishments to Date: The Working Group has been meeting monthly since November 1999 with an increasing number of landowners and other stakeholders attending each meeting. Owners and managers of privately managed wetlands (duck clubs), agricultural land, and mineral rights and lease holders are all involved in the discussions. Guest speakers and technical experts, including technical team members Gus Yates, Ted Sommer and Warren Shaul, have presented information to the Working Group. The following individuals have also given presentations: Ricardo Pineda, Chief Engineer with the State Reclamation Board; Bill Gaines with the California Waterfowl Association (CWA); Tom Harvey, Project Manager for the proposed U.S. Fish and Wildlife Service (USFWS) North Delta National Wildlife Refuge (NDNWR); Tim Washburn with the Sacramento Area Flood Control Agency; Dan Keppen with the Northern California Water Association; Larry Plumb and Val Dolcini with the U.S. Department of Agriculture (USDA) Farm Services Agency; Dave Feliz, Manager of the California Department of Fish and Game (DFG) Vic Fazio Yolo Bypass Wildlife Area; and Phil Hogan with the USDA Natural Resources Conservation Service (NRCS).

Key issues discussed include historical flood flow and low flow data, proposed ecological enhancement activities and land-use changes, maintenance of existing livelihood and lifestyle, changes to land management practices posed by the potential presence of special-status species, potential effects on flood conveyance resulting from ecological enhancement activities, government programs available for funding habitat management on private lands, and fair market compensation for ecological enhancement activities. The proposed **NDNWR** has also been an important topic of discussion.

The monthly Working Group meetings have been very successful in developing a cohesive group that is openly discussing many issues of mutual concern and developing creative solutions to the complex issues facing land managers in the Bypass. These meetings will continue through the duration of the project. In the next several months the project team will facilitate the development of land-use alternatives with the Working Group and will incorporate them into the Management Strategy document.

The project team has obtained information from representatives of entities that have formed land management partnerships between public and private entities in the region to learn about the structure of their partnerships and to discuss their experience with forming these partnerships. The team met with representatives from The Nature Conservancy's (TNC) Cosumnes River Preserve (Preserve), and with CWA to discuss management of the Preserve and the Grasslands Irrigation District. The team met with representatives of the *NRCS*, DFG, USFWS, CWA, and TNC to collect information on potential funding options for implementing portions of the Management Strategy. The project team also conducted internet searches for additional potential funding sources and has assembled extensive information on state and federal landowner incentive programs.

The project team has met several times with local avian, wildlife, and fisheries specialists to begin to formulate initial potential alternatives for expanding wildlife habitat in the Bypass while maintaining agricultural viability and flood conveyance capacity.

Deliverables: Quarterly programmatic reports, general project communications, and the Management Strategy document.

Scientific Merit: Hypothesis: The Foundation believes that by organizing the Working Group of stakeholders with an interest in the Bypass, a locally driven, consensus-based Management Strategy that will address the goals of the CALFED Ecosystem Restoration Program Plan (ERPP) can be developed with the support of the affected community of landowners.

Conceptual Model: The conceptual model based on working with landowners, farmers, agencies and other interests through an organized process to develop a mutually satisfactory plan for the future of the Bypass follows the successful model instituted by the Foundation to facilitate the multi-agency, community-based partnership that led to the creation of the 3,700-acre DFG Vic Fazio Yolo Wildlife Area. This partnership is often cited as an example of the concept of successful community involvement.

Adaptive Management: The project team employs an adaptive management style for facilitating the stakeholder consensus-building process by responding to new information and stakeholder reactions with new or modified approaches to the process. By participating in the Working Group, landowners, farmers, and other land managers are being exposed to the concept of adaptive management as defined by CALFED in the ERPP. They have the opportunity to discuss their land management techniques and hear how others are responding to similar situations. This interaction between the private landowners and agency representatives is giving both the opportunity to learn from each other and perhaps modify their actions accordingly.

APPENDIX B. REFERENCES

Anderson, J.H., and Anderson, J.L. 1996. Establishing permanent grassland habitat with California Native Perennial Grasses. Valley Habitats. Ducks Unlimited, Inc. Rancho Cordova, CA. 14:1-12.

Bias, M.A. 1995. Wildlife resources of the Central Valley, California: important wetland-associated mammals. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. 10:1-8.

Bias, M.A. 1997. Ecology and conservation of the chinook salmon in the Central Valley. Valley Habitats. Ducks Unlimited, Inc. Rancho Cordova, CA. 19:1-12.

Burton, S.F., Bias, M.A., and Staelgraeve, S.E. 1995. Wildlife resources of the Central Valley, California: important wetland-associated mammals. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. 11:1-8.

CALFED Bay-Delta Program. 1999. Ecosystem Restoration Program Plan. Draft Programmatic EIS/EIR Technical Appendix. Sacramento, CA.

CALFED Bay-Delta Program. 1999. Ecosystem Restoration Program Plan. Volume 2 - Ecological Draft Programmatic EIS/EIR Technical Appendix. Sacramento, CA.

CALFED Bay-Delta Program. 1999. Multi-Species Conservation Strategy. Draft Programmatic EIS/EIR Technical Appendix. Sacramento, CA.

California Department of Conservation. 1998. Farmland Conversion Report 1994-1996. Division of Land Resource Protection. Sacramento, CA. Prepared by the Farmland Mapping and Monitoring Program. Sacramento, CA.

California Department of Conservation. 1998. A Guide to The Farmland Mapping and Monitoring Program. Division of Land Resource Protection. Sacramento, CA. Prepared by the Farmland Mapping and Monitoring Program. Sacramento, CA.

California Department of Water Resources. 1990. Environmental Impact Report. Environmental Impact Statement. North Delta Program. Draft. Pages 168-178.

California Department of Water Resources. 1999. Results and Recommendations from 1997-1998 Yolo Bypass Study. Draft. Sacramento, CA.

California Agriculture. 1999. 53(3):10-17. University of California, Division of Agriculture and Natural Resources.

California Agriculture. 2000. 54(2): 10-25. University of California, Division of Agriculture and Natural Resources.

Chamey, R., Well, J.R., Engilis, Jr., A., Reid, F.A., Goebel, P., and Nagel, J. **1995.** A guide to wetland restoration on private land. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. **4:1-8.**

Chouinard, M.P., and Schmidt, P.E. **1997.** Wildlife resources of the Central Valley, California: the Mallard Valley Habitats. Ducks Unlimited, Inc. Rancho Cordova, CA. **18:1-12.**

Cooperative Land Management Agreement between the Fish and Wildlife Service (Pacific Region), California Department of Fish and Game, California Department of Parks and Recreation, Grassland Water District and Grassland Resource Conservation District Acting on Behalf of the Private Landowners Within the Grassland Ecological Area, Bureau of Reclamation, for the Holistic Management of the Grassland Ecological Area.

Diehl, J., and Barrett, T.S. **1988.** The Conservation Easement Handbook. Land Trust Exchange and the Trust for Public Land. San Francisco, CA.

Engilis, Jr., A. **1995.** Wildlife resources of the Central Valley, California: birds - Part II.. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. **6:1-12.**

Harrell, W.C., Burton, S.F., and Bias, M.A. **1995.** Enhancing agricultural fields for waterfowl. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. **3:1-8.**

Heasley, P.A. (ed.) **1994.** Options for Wetland Conservation: A Guide for California Landowners. California State Coastal Conservancy. Oakland, CA.

Jones & Stokes Associates, Inc. **1990.** Inventory of the wetland and riparian habitats of Yolo County, California. Final Report. (JSA **89-275.**) Sacramento, CA. Prepared for Yolo County Community Development Agency, Woodland, CA.

Jones & Stokes Associates, Inc. **1990.** Hydrologic Analysis of the Mace Ranch Portion of the Proposed Yolo Basin Wildlife Area. Final Report. (JSA **90-167.**) Sacramento, CA. Prepared for Central Valley Habitat Joint Venture, Sacramento, CA.

Jones & Stokes Associates, Inc. **1993.** Suitability Analysis for Enhancing Wildlife Habitat in the Yolo Basin. Final Report. (JSA **90-285**) Sacramento, CA. Prepared for Central Valley Habitat Joint Venture, Sacramento, CA.

Kawasaki, S., and Raquel, P.F. **1995.** Fish screens and water diversions. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. **8:1-8.**

Lindberg, J.C., and Marzuola, C. **1993.** Delta Smelt in a Newly-Created, Flooded Island in the Sacramento-San Joaquin Estuary, Spring **1993.** BioSystems Analysis, Inc. Tiburon, CA. Prepared for California State Department of Water Resources. Sacramento, CA.

Mensik, J.G., and Reid, F.A. **1995.** Managing problem vegetation. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. **7:1-8.**

Miller, M.R., Fleskes, J., Casazza, M., and Austin, J. **1995**. Wildlife resources of the Central Valley, California: the northern pintail. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. **113:1-12**.

Northern California Water Association. **1999**. Adopted Land Acquisition Policy, Responsible Land Acquisition for Environmental Purposes. June.

Northern California Water Association. **1999**. Adopted Principles for the CALFED Bay-Delta Program. September.

Passaglia, M.A., Jaraczski, J., Quinn, J.J., Mensik, J.G., Kramer, G.W., Widells, D., and Kerry, J. **1995**. Establishing a hunting program on your farm. Valley Habitats. Ducks Unlimited, Inc. Rancho Cordova, CA. **16:1-12**.

Reid, F.A. **1995**. Managing seasonally flooded wetlands in California's Central Valley. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. **9:1-4**.

Smith, W.D. **1995**. Management of spring and summer brood water wetlands in the Central Valley. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. **2:1-8**.

Stevens, M., and Rejmankova E. **1995**. Cache Slough/Yolo Bypass Ecosystem Monitoring Study to Determine Wetland Mitigation Success. (Technical Report **WRP-RE-11**). University of California. Davis, CA. Prepared for U.S. Army Corps of Engineers. Washington, DC.

Stevens, M., McBee, C., and Rejmankova, E. **1997**. Cache Slough/Yolo Basin **1996** Monitoring Report. University of California, Davis. Davis, CA.

Strong, M.A. **1991**. Land Protection Plan for Proposed Land Acquisition to Establish the North Central Valley Wildlife Management Area. Prepared by U.S. Department of Interior, Fish and Wildlife Service, Region 1, Portland, OR.

Troedsson, K. **1999**. Techniques and tools of conservation. Valley-Bay Habitats. Ducks Unlimited, Inc. Rancho Cordova, CA. **20:1-10**. Spring, **1999**.

U.S. Army Corps of Engineers. **1986**. Supplement No. 1 to Design Memorandum No. **13**, Sacramento River Flood Control Project, California: Right Bank Yolo Bypass and Left Bank Cache Slough Near Junction Yolo Bypass and Cache Slough Levee Construction. Sacramento District. Sacramento, CA.

U.S. Army Corps of Engineers. **1990**. Office Report, Contract **42M2**, Sacramento River Bank Protection Project: Cache Slough/Yolo Bypass Mitigation Area, Solano County, California.

U.S. Army Corps of Engineers. **1990**. Office Report, Contract **42M2**, Sacramento River Bank Protection Project: Cache Slough/Yolo Bypass Mitigation Area, Solano County, California. Sacramento, CA. Prepared by Fujitsu, M., U.S. Army Corps of Engineers, and Dehaven, R., U.S.

Department of Interior for the U.S. Army Corps of Engineers, Sacramento District, Central Valley Section and the Sacramento River Inter-Agency Mitigation Team. Sacramento, CA.

U.S. Army Corps of Engineers. 1991. Yolo Basin Wetlands Sacramento River, California Draft Environmental Assessment/Initial Study. Sacramento District. Sacramento, CA.

U.S. Army Corps of Engineers. 1994. Draft Project Modification Report and Environmental Assessment for Yolo Basin Wetlands, Davis Site, Sacramento, CA. Sacramento District. Sacramento, CA.

U.S. Army Corps of Engineers. 1996. Reconnaissance Report - Little Holland Tract, California. Sacramento District. Sacramento, CA.

U.S. Army Corps of Engineers. 1996 approx. Version 1.0. Yolo ~~Bypass~~ Floodplain Management Model Users Manual. Draft. Sacramento District. Sacramento CA

U.S. Army Corps of Engineers. 1998. Final Environmental Assessment/Initial Study for Prospect Island Fish and Wildlife Habitat Restoration Study, Solano County, California. Sacramento District. Sacramento, CA.

U.S. Army Corps of Engineers. 1994. Reconnaissance Report Westside Tributaries to Yolo Bypass, California. Sacramento District. Sacramento, CA.

U.S. Fish and Wildlife Service. Date **unknown**. Central Valley Easement Guidelines, Sample Easement, Agreement for Purchase of Lands. Portland, OR.

U.S. Fish and Wildlife Service. 1999. Final Rule. Safe Harbor Agreements and Candidate Conservation Agreements with Assurances. Washington D.C.

U.S. Fish and Wildlife Service. 2000. Environmental Assessment, Land Protection Plan, and Conceptual Management Plan, Proposed North Delta National Wildlife Refuge, Solano and Yolo Counties. Sacramento, CA.

Wolder, M. 1995. Diseases of waterfowl wintering in the Central Valley of California. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. 12:1-12.

Wrynski, J.E., Garr, J.D., and Bias, M.A. 1995. Cover crops for agriculture and wildlife. Valley Habitats. Ducks Unlimited, Inc. Rancho Cordova, CA. 15:1-12.

Wrynski, J.E., and Fitshugh, L. 1996. Rice straw decomposition and development of seasonal waterbird habitat on rice fields. Valley Habitats. Ducks Unlimited, Inc. Sacramento, CA. 1:1-8.

Yolo, County of. 1997. Agricultural Crop Report. Department of Agriculture, Woodland, CA.

Yolo, County of. 1983. Yolo County General Plan. Prepared by the Yolo County Community Development Agency.

Yolo County Resource Conservation District. 1998. Bringing Farm Edges Back to Life, How to Enhance Your Agriculture and farm Landscape With Proven Conservation Practices for Increasing the Wildlife Cover on *Your* Farm. Woodland, CA

4 2 2

APPENDIX C. LETTERS OF SUPPORT

STATE CAPITOL
P.O. BOX 942949
SACRAMENTO, CA 94249-0006
(916) 319-2008
FAX (916) 319-2108

SOLANO COUNTY
555 MASON STREET, SUITE 275
WACAMVILLE, CA 95688
(707) 455-8025
FAX (707) 455-0490

YOLO COUNTY
712 MAIN STREET
WOODLAND, CA 95695
(530) 662-7067
FAX (530) 406-0770

e-mail
helen.thomson@assembly.ca.gov

website
<http://www.assembly.ca.gov/thomson/>

Assembly California Legislature

HELEN MACLEOD THOMSON
ASSEMBLYWOMAN, EIGHTH DISTRICT
ASSISTANT SPEAKER PRO TEMPORE

May 5, 2000

CHAIR
SELECT COMMITTEE ON
MENTAL HEALTH

CO-CHAIR
LEGISLATIVE ETHICS COMMITTEE

STANDING COMMITTEES
AGRICULTURE
APPROPRIATIONS
HEALTH
LOCAL GOVERNMENT
WATER, PARKS, AND WILDLIFE

SELECT COMMITTEES
CALIFORNIA PORTS
CALIFORNIA WINE
INDIAN GAMING
JOINT COMMITTEE ON FAIRS
ALLOCATION AND CLASSIFICATION
RURAL ECONOMIC DEVELOPMENT
SCHOOL FACILITIES FINANCE
NATIVE AMERICAN REPARATION

Dear CALFED Administrator:

I write in support of the proposal submitted to CALFED by the Yolo Basin Foundation and the Yolo Bypass Working Group.

Since November 1999 the Foundation and Working Group have been in discussions to develop a locally-driven, long-term management strategy for the entire Yolo Bypass. The goal is to create a working group of landowners, water users and other relevant agencies associated with the functions of the Bypass to create a Yolo Bypass Management Strategy that will:

- * Maintain current flood conveyance capacity;
- * Maintain current agricultural and other land uses and their associated lifestyles;
- * Preserve existing habitat values;
- * Assist farmers in implementing economically feasible and "wildlife friendly" practices;
- * Improve fish passage, and spawning and rearing habitats; and
- * Improve shorebird and waterfowl habitat.

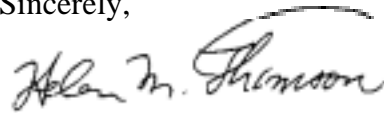
Meetings to date have been very successful in forging a cohesive working group that is openly discussing these many issues. The preliminary result of these meetings has been a general willingness by landowners to discuss habitat-based land use changes in the Yolo Bypass provided that certain factors are comprehensively addressed so that informed decisions can be made. The proposal you are being asked to support addresses these factors:

- Analysis of existing compensation programs for habitat-based land use changes to determine if they are appropriate for the Bypass. If not, specific fair market compensation methods would be developed by locally determined agricultural land appraisers and economists and with Bypass landowners.
- Development of a site-sensitive hydrologic and hydraulic model to be used to assess potential impacts to the overall flood conveyance in the Bypass of proposed land use changes. This model would be additive to existing and ongoing macro-level modeling efforts by the US Army Corps of Engineers.

- Development of a Memorandum of Understanding among stakeholders that outlines key assurances regarding flood conveyance, special status species, and fair market compensation and establishes the Yolo Bypass Working Group for future discussions.

In order to be successful, habitat-based land use changes in the Bypass must have support of all stakeholders. Actions must be locally driven and approached in a coordinated fashion consistent with an overall plan. I urge your strong support for the activities described above **as** they comprise an important step in reaching the necessary consensus for a healthy future for the Yolo Bypass. Thank you for your favorable consideration of this proposal.

Sincerely,

A handwritten signature in cursive script that reads "Helen M. Thomson". The signature is written in dark ink and is positioned above the printed name.

HELEN M. THOMSON

HT:ef



County of Yolo

625 Court Street, Room 204 Woodland, California 95695 (530) 666-8195 FAX (530) 666-8193

BOARD OF SUPERVISORS

First District- Mike McGowan
Second District- Lois Wolk
Third District- Tom Stallard
Fourth District- Dave Rosenberg
Fifth District- Lynnel Pollock
County Administrator - Victor Singh
Clerk of the Board - Paula Cooper

May 12, 2000

Steve Ritchie, Acting Executive Director
CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, CA. 95814

Subject: Ecosystem Restoration 2001 Proposal Solicitation

Dear Mr. Ritchie,

The Yolo County Board of Supervisors is writing to express our support for funding the Yolo Basin Foundation's proposal for the Yolo Bypass Management Strategy, Phase II. The purpose of Phase I, now underway, is to create a working group of landowners, water users, and relevant agencies to create an overall vision for managing multiple resource needs within the Bypass, including maintenance of flood conveyance capacity; preservation of existing agricultural production; encouragement of economically feasible farm practices that improve wildlife opportunities; and protection and enhancement of current habitat values.

A Working Group of local landowners has been meeting regularly over the past six months to discuss the range of challenges that presently face those who own property within the Yolo Bypass. This effort has identified several needs, which would be addressed through the next steps in the Management Strategy process. Specifically the proposal would focus on the following issues:

- Analyze current compensation programs for habitat-based land use changes to determine if they are appropriate for the Bypass. If not, specific fair market compensation methods would be developed by locally determined agricultural land appraisers, economists, and Bypass landowners;
- Create a site-sensitive hydrologic and hydraulic model to be used to assess potential impacts of ecological enhancement projects on the overall flood conveyance;
- Develop a Memorandum of Understanding between landowners, resource agencies, and other parties with an interest in the Bypass that outlines key issues critical to the management of the Bypass for multiple uses. The emphasis of the MOU would be to link the Management Strategy process to actual implementation

of projects that enhance ecological values, protect agriculture and duck club economic viability, and ensure the flood conveyance of the Bypass.;

- Prepare a benefit and cost analysis of ecological enhancement opportunities within the Bypass;
- Evaluate how critical decision-making on issues relating to the Bypass could be improved and monitor the effectiveness of the Working Group in implementing the above programs; and

The project is being sponsored by the Yolo Basin Foundation for the Working Group. The Foundation has many years of experience in coordinating with a wide range of public and private partners, including the Department of Fish and Game, the City of Davis, U.S. Fish and Wildlife Service, U.S. Bureau of Reclamation, and California Waterfowl Association. Through their efforts, the Vic Fazio Yolo Wildlife Area has become a model project for demonstrating the array opportunities that can be accomplished through the successful partnership of resource agencies, city and county governments, landowners, farmers, and flood control interests. The next phase of the Yolo Bypass Management Strategy would be a logical extension of this established approach.

New ways need to be found to develop financial and regulatory mechanisms to enhance the compatibility of agriculture and habitat. The actions described above will play a key role in creating the partnerships between the farm and environmental communities necessary to achieve the CALFED Ecosystem Restoration Plan. As such, the Foundation's proposal deserves to be fully funded to ensure its complete success.

Thank you for the opportunity to express the County's support of the Yolo Basin Foundation and its efforts.

Sincerely,



Lois Wolk, Chair

Yolo County Board of Supervisors

Dixon Resource Conservation District

1170 North Lincoln Street, Suite 110, Dixon, CA 95620 707-678-1655

Yolo Bypass Working Group
P.O. Box **943**
Davis, CA 95617

May 10, 2000

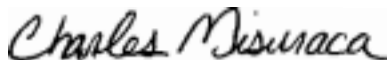
Dear Yolo Bypass Working Group,

The Dixon Resource Conservation District voted unanimously on May 9, 2000 to support your most recent CALFED grant proposal for the Yolo Bypass.

The participation of local stakeholders is necessary for the development of any successful management plan for the bypass. The goals you have outlined for the proposal **are** significant to any plan that includes land use changes from current practices.

Please contact us if there is any assistance we may provide to the workgroup.

Sincerely,



Charles Misuraca
Chairman